CONSTRUCTION NEWS

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RAILWAYS.

*(*De s that this work is advertised in Engineering News.)*

NOTE Beginning with this issue, the items garding railway construction in this depar nt will be classified under the State in wh the principal amount of work is to be do These items will be grouped according to the geographical arrangement, found so satisfactory in the past, as follows:

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Tennessee, Kentucky, Ohio, Indiana, Michigan, Illinois, Wisconsin, Iowa, Minnesota, Kansas, Nebraska, South Dakota, North Dakota, Wyoming, Montana, Missouri, Arkansas, Texas, Oklahoma, Colorado, New Mexico, Idaho, Utah, Nevada, Arizona, Washington, Oregon, California, Alaska.

In Canada items are grouped in a similar order, beginning with the Maritime Provinces, when Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

All items regarding work in Mexico are grouped under the one title—Mexico.

NEW HAMPSHIRE.—Boston & Maine R. R., New Haven System.—Announcement has been made by T. E. Byrnes, Vice-Pres. Boston, Mass., that trackage which will connect the two parts of the Conecticut division of the Boston & Maine R. R. will be built at once. This will be on the New Hampshire side of the Conecticut River from Hinsdale, N. H., to Brattleboro, Vt., a distance of ten miles. It will be a double-track line, and cost about $2,000,000. Noted on Jan. 26.

PENNSYLVANIA.—Lehigh & New England R. R.—The general contractor for the grading between Dametsville and Tamaqua, Pa., MacArthur Bros. Co., 11 Pine St., New York, have sublet the grading of ten miles at the western end to the PURCELL CONSTRUCTION CO., Harrisburg, Va. Noted on Jan. 19.

New York Central & Hudson River R. R. —Press reports are to the effect that this company contemplates building a line from McGees Mill to Rossiter, about twelve miles. This company now owns a short road from Rossiter to Rossiter Junction, and doubtless a portion of this would be used in the proposed farther extension to Punxsutawney. B. M. McDonald, Jersey Shore, Pa., is Div. Engr.

WEST VIRGINIA.—Buckhannon & Northern R. R., Baltimore & Ohio System.—Patterson, Moran & Luck, Fitzsimmons Bldg., Pittsburg, have awarded sub-contracts as follows: Masonry, sections one to five, G. T. FOGLE & CO., St. Albans, W. Va.; sections 11 to 25, PENNSYLVANIA CONSTRUCTION CO., Pittsburg, Pa.; sections 26 to 30, MARSHALL & SALES, Roanoke, Va. Grading, sections 8, 9, 10 and 11, WEAVER & GILMORE, Morgantown; sections 16, 17 and 18, FLINN BROS., McKeesport, Pa.; sections 22, 23 and 24, R. T. MARTIN, Parkersburg, W. Va. Noted on Feb. 9.

GEORGIA.—Ocilla Southern Ry.—Contracts have been signed by J. A. J. Henderson, Pres. of the company, whereby the line will be extended from Allapaha, Ga., the present terminus, to Nashville, Ga., about 15 miles.

ALABAMA.—Tuscaloosa Mineral R. R.—Plans are under consideration for the building of a new line from Tuscaloosa to Birmingham, about 50 miles. F. G. Blair, Ashton Bldg., Tuscaloosa, Ala., is Pres.

OHIO.—ERIE R. R.—Pres. Underwood has stated that while no new capital will be raised for construction, all funds, except those necessary for operating expenses and fixed charges, will be expended on needed improvements. The double-tracking between Salamanca and Marion will be completed as planned.

The Pennsylvania Lines West.—Officials of the company announce that $2,975,000 will be spent in abolishing grade crossings between Cedar and Hamilton Aves. in Cleveland. Work is expected to be started May 1, as 60 days are required by the State law after the passage of an ordinance before work can be begun. Thomas Rodd, Pittsburg, Pa., is Ch. Engr.

ILLINOIS.—St. Louis, Peoria & Northwestern Ry. Co.—Articles of incorporation have been filed by the St. Louis, Peoria & Northwestern Ry. Co., with principal office in Chicago, Ill. The object is to construct a railway from a point in or near Peoria, Ill., in a southerly direction, through the counties of Peoria, Tazewell, Mason Menard, Sangamon and Macoupin, to a connection with the Macoupin CountyRy., at a point about about and one-half miles south of Girard, in Macoupin County. The incorporators and first Board of Directors are: Marvin Houghitt, who is Chairman of the Board of Directors of the Chicago & Northwestern Ry.; Chauncey Keep, Byron L. Smith, Barret Conway, all of Chicago, Ill.; John V. Farwell, Lake Forest, Ill.; William A. Gardner, Evanston, Ill.; John D. Caldwell, Oak Park, Ill.

KANSAS.—Atchison, Topeka & Santa Fe Ry.—Press reports state that a new connecting link is planned between Bucklin and Belvidere. This line will be about 30 miles long. G. J. Graves, Dodge City, Kan., is Div. Engr.

NEBRASKA.—Union Pacific R. R.—The contract for construction of a 50-mile link of the cut-off which is contemplated across eastern Wyoming, known as the Laramie cut-off, has been let to KILPATRICK BROS. & COLLINS, Beatrice, Neb. This link extends from Northport, Neb., to Gering, Neb., and parallels the Burlington the entire distance. It is an extension of the line along the North Platte River, and will eventually rejoin the main line at Laramie, Wyo., making a cut-off of nearly 200 miles in length.

TEXAS.—Atchison, Topeka & Santa Fe Ry.—Construction of the extension of the Pecos Valley & Northwestern R. R., a Santa Fe property, from Pecos to Boquillas, about 150 miles, will soon be started at three different points. The line will cross the Southern Pacific and the Kansas City, Mexico & Orient roads at Alpine, and from the latter place will run southeast to Boquillas. H. S. Wagner, Amarillo, Tex., is Prin. Asst. Engr. Lines West.

COLORADO.—Colorado & Southern Ry., and the Colorado Midland Ry.—These planning, according to press reports, a joint road down the Valley of the Blue River from Dillon to Kremming, about 50 miles. At the latter point a connection will be made with the Denver Northwestern & Pacific. H. W. Cowan, Denver, Colo., is Ch. Engr. the Colorado & Southern, and F. C. Mallon, Colorado City, is Ch. Engr. the Colorado Midland.

IDAHO.—Oregon Short Line Ry.—This subsidiary of the Union Pacific is the first to make plans for double-tracking the proposed $75,000,000 improvement. Plans have been prepared, under the direction of W. H. Bancroft, Vice-Pres. and Gen. Mgr., for double-tracking a 15-mile stretch west from Pocatello and seven miles in both directions from Montpelier. See also Utah.

UTAH.—Oregon Short Line Ry.—Plans have been prepared, under the direction of W. H. Bancroft, Vice-Pres. and Gen. Mgr., for double-tracking 21 miles between Farmington and Ogden. See also Idaho.

WASHINGTON.—North Coast R. R. Co.—Contracts for approximately $4,000,000 worth of work on 40½ miles of the new line of the North Coast R. R., now owned by the Harriman system, between Spokane and Ayer Junction, on the Snake River, a distance of 163 miles, have been let to G. A. CARLSON & CO., Spokane, Wash.; W. L. TRIMBLE, Spokane, Wash.; ESCHBACH-BRUCE CO., North Yakima, Wash.; and GEORGE CHEW, Spokane. Nine tunnels will be bored in the distance. The work must be completed in less than 18 months, according to contract. G. W. Boschge, Portland, Ore., is Asst. Gen. Mgr. in charge of engineering of the Oregon-Washington R. R. & Navigation Co., the parent company.

Northern Pacific Ry.—Press reports state that this company will soon start work on the construction of a cut-off between the Tacoma (Wash.) water front and Tenino. This work, which will be approximately 41 miles long, will involve an expenditure of $4,000,000. Heavy filling and cutting will have to be done, while two tunnels will be bored under Point Defiance, one 4,000 and the other 400 ft. long. The line will have a maximum grade of 0.3%. It will be used jointly by the Northern Pacific, Great Northern and Harriman lines. A. R. Cook, Tacoma, Wash., is Engr. M. of W. lines West.

OREGON.—The Grants Pass & Rogue River R. R.—This recently incorporated company contemplates constructing a railroad from Grants Pass, Ore., along the valleys of Rogue River and Williams Creek to the Oregon caves in southern Oregon. A. D. Bowen is Pres.; H. L. Chapin, Portland, Vice-Pres. J. E. Riggs, Grants Pass, Ore., is interested in the enterprise.

CALIFORNIA.—Southern Pacific Co.—Plans are being considered for the tunnelling of the Sierra Nevada Mountains, between Cisco and Donner. This tunnel, when built, will be about six miles long. W. Hood, San Francisco, Cal., is Ch. Engr.

PANAMA.—The proposed line to be constructed by the Panama government will have a total length of 362 miles. The main line will extend along the Pacific coast from Panama to David, near the frontier of Costa Rica. A branch will be built to Los Santos. Bids will be received until June 30 from both European and American contractors. C. C. Arosemena, Panama, is Secretario de Fomento. Noted on Jan. 5.

ELECTRIC RAILWAYS.

CAMBRIDGE, MASS.—Plans have been filed with the Board of Railroad Comrs. for an extension of the Boston Elevated Ry. Co. The extension which has a Boston terminus at Park St. is to leave its underground passage at Grove Pl., at which point it goes onto an elevated structure to the Cambridge bridge.

AMSTERDAM, N. Y.—It is reported that the franchise has been granted by the City Council, to the Fonda, Johnstown & Gloversville R. R., to continue its line into Amsterdam. F. A. Bagg, Gloversville, N. Y., is Ch. Engr.

WATERTOWN, N. Y.—The Black River Traction Co. interests, it is stated, are being taken over by Rochester capitalists. It is understood here that the new company contemplates the extension of the line to Henderson Harbor by way of Sacket Harbor, about 15 miles. It is also said that the company has under consideration the matter of extending the lines from this city to the army maneuver camp at Pine Plains.

MECHANICSBURG, PA.—It is the intention of the Valley Traction Co. to extend its line through Mechanicsburg. A franchise will be applied for. A. S. Bentz, Lemoyne, Pa., is Ch. Engr.

PENNSYLVANIA.—Press reports state that several miles of the new road will be in the Monongahela Valley, taking in Monessen and Webster. In the other direction connection will be made with present lines at Brownsville. At the end of the McKeesport division at Scott Haven the line will be continued to West Newton. From that point a new line will be constructed to Herminie and Madison, with a straight line of about ten miles to connect with the line in operation in the coke region at Hunkers, a short distance from Greensburg. In the summer a line from Greensburg to Jamison No. 2 and on to Latrobe will be constructed. About $25,000,000 will be spent. J. L. Fritsch, Connellsville, Pa., is Ch. Engr.

NORFOLK, VA.—The Norfolk & Portsmouth Traction Co. proposes to extend its line from Powhatan Ave. to 43d St., about a mile to Tanners Creek; also its Ocean View line two miles to East Ocean View.

ATLANTA, GA.—A company has been organized by J. Aldredge, Charles Glover, J. D. Little, W. P. Andrews and associates to build a railway from Buckhead into Atlanta, where it will run through Peachtree Road to the Brookhaven Club.

HUNTSVILLE, ALA.—A project is being promoted by prominent business men of Decatur to build an inter-urban railroad between Huntsville and Decatur. A preliminary survey will be made, which will cost $2,500.

NEW IBERIA, LA.—A project is on foot to build a railway connecting New Iberia with Lafayette, about 75 miles. This work is contemplated by the Southwestern Traction & Power Co., recently incorporated, capital $1,500,000. F. W. Crosby, New Orleans, La., is Pres.

CHATTANOOGA, TENN.—Application has been made by C. E. James and others for franchises to build several lines through the streets of Chattanooga.

NEWPORT, KY.—A charter has been applied for by the Northern Kentucky St. Ry. Co. to build a railway here. The incorporators are Gwynne Dennis, J. M. Dawson and Edward F. Kelly.

FOSTORIA, OHIO.—The council of the recently incorporated village of Burgoon has granted a franchise to the Fostoria & Fremont Ry. Co. for the use of such streets as it may require for its tracks. The company will now negotiate with the Pennsylvania Ry. Co. for a crossing over their tracks. J. W. S. Reigle, Findlay, Ohio, is Ch. Engr. Noted Sept. 22.

GARY, IND.—An extension of 12 miles will be built by the Gary & Southern Traction Co., it is stated. Considerable of the grading has been finished. I. W. Troxel, Chicago, Ill., is Ch. Engr.

CRESTON, IOWA.—A charter has been applied for by the Chester, Winterset Interurban Ry. Co., capitalized at $500,000, to build a line from Creston to Des Moines.

DULUTH, MINN.—Improvements will be made during the coming year, by the Duluth St. Ry. Co. costing about $100,000. J. Carson, 2631 W. Superior St., Duluth, is Ch. Engr. Noted Sept. 22.

MOORHEAD, MINN.—We are officially advised that the Fargo & Moorhead St. Ry. Co. will not build an extension to Dilworth, Minn., as noted Jan. 26.

ST. PAUL, MINN.—Surveys have been made and most of the rights of way obtained by the St. Paul Ry. Promotion Co., for a trolley line about 57 miles long. This line will extend from St. Paul to Military Camp Grounds passing through Oakland Highwood, Red Rock, Newport, St. Paul Park and Langdon, where it will cross the Mississippi River to Hastings, continuing to Etter, Eggleston, Redwing, Wacouta, Frontenac, Lake Pepin County Club and Lake City. The officers are: Philip W. Herzog, Pres.; Kay Alexander, Ch. Engr., and W. L. Sonntag, Gen. Mgr., 709 Metropolitan Opera House Bldg., St. Paul, Minn.

IOLA, KAN.—A railway is projected to connect Iola, Humboldt and Chanute. J. J. Jones, D. H. Siggins, Pres. of the Union Traction Company of Kansas, the main offices of which are located at Independence, Kan., and others are interested.

INDIANA CONSTRUCTION OUTLOOK.

The outlook for building and construction work in Indiana during 1911 is unusually good in all lines, with the possible exception of railroad construction. The mild weather has advanced the season and even now there is considerable activity in building circles throughout the state. A very promising feature of contract work is noticeable in the large number of gravel and macadam roads to be constructed this spring. The good roads agitation has prompted this, aided by the enactment of a law by the Legislature exempting gravel road bonds from taxation. During the next three months bids will be asked for the construction of several hundred miles of pike roads.

The Government will let contracts in a short time for post office buildings at Brazil, Wabash, Portland and Green-Castle.

Bids for the erection of the plant of the Gary Screw & Bolt Co., which is identified with the Pittsburg Bolt & Screw Co., will be asked for during the next few weeks at the general offices of the company in Pittsburg. Immediately on the award of the contract construction work on the Gary plant will begin. Plans of the plant, which is estimated to cost $1,000,000 were approved some time ago. The new industry will be located near the mills of the United States Steel Corporation. Its annual output is expected to be 50,000 tons of nuts, bolts, rivets and screws. This is the first of the small plants which will utilize steel products and will eventually be grouped around the big steel mills.

The Board of Public Works of Indianapolis is preparing to let contracts for the construction of three new fire department buildings and a new city hospital involving the expenditure of several hundred thousand dollars. Herbert L. Bass & Co., Archs., are preparing the plans and specifications.

The Brazil, Ind., factory promoting club has signed a contract for the location of two large factories to be erected in Brazil. One is the Northwestern Can Co. of Chicago, which will soon ask for bids for the erection of a building 100 × 600 ft. in the new factory addition. The other, a large food products company, which will likewise erect a brick building 100 × 300 ft., four stories high.

The Indiana Legislature has made the following appropriations for the erection of State buildings, contracts for which will be closed during the first quarter of the season: Purdue University, library building, Lafayette, $100,000; village for epileptics, Southern hospital for the insane, Evansville, buildings $81,500; school for feeble minded, Ft. Wayne, buildings, $91,300, and for other State buildings, equipment and repairs a total specific appropriation of $821,532.

Large dredging contracts are to be let in Blackford County, in which 500 land owners are interested. The work will consist of dredging Little Lick and Big Lick Creeks.

The Wabash-Patoka Levee involving the construction of 50 miles of levee and the placing of 2,000,000 cu. yds. of earth, flood locks and pumping stations, diversion channels and bank levees, straightening the channel of the Patoka river at an estimated cost of $1,175,000, is perhaps the largest undertaking of the kind ever planned in the State. E. E. Watts, Engr., Patoka, Ind., has almost completed the plans and estimates for the project.

KANSAS CITY, MO.—The contract for building the line of the St. Louis-Kansas City Electric R. R. from Kansas City to Cumberland, Mo., about 140 miles, has been awarded to the L. J. SMITH CONSTRUCTION CO., Commerce Bldg., this city, at about $10,000,000. The contract will include the double tracking of the entire line, 70-lb. rails will be used, and 3,000 ties to the miles; the removal of 11,000,000 yds. of earth, 700,000 yds. of solid rock, 700,000 yds. of loose rock, placing 146,000 yds. of concrete, 12,000 yds. of reinforced concrete, about 6,000 yds. of trestle timber and all the fencing. The contract for the bridges, one at Arrow Rock and one near St. Charles, was awarded last year and noted Sept. 22. The officers are as follows: D. C. Nevin, Pres.; John H. Berkshire, Vice-Pres.; B. L. Dorsey, 2d Vice-Pres.; H. E. Insley, Secy. and Auditor; Henry V. Johnson, Treas., and C. A. Loomis, Gen. Counsel.

CORPUS CHRISTI, TEX.—A contract will soon be let for the overhead material and rails for an extension about one mile long, to be constructed by the Corpus Christi St. & Interurban Ry. Co. F. C. Headley, Corpus Christi, is Supt.

LAS CRUCES, N. MEX.—The Las Cruces Ry. Co., has made application for a charter to construct and operate electric railways here. The directors are C. M. Haley, Isidoro Armijo, and W. P. Lapont, all of this city, and S. T. Reynolds, El Paso, Tex.

VANCOUVER, WASH.—Application has been made by the Mount Hood Ry. & Power Co., it is reported, to build a railway here. Smith, Kerry & Chace, Toronto, Ont. and Portland, Ore., have charge of the engineering work.

HOLLYWOOD, CAL.—A franchise has been granted by the Board of Supervisors to the Los Angeles-Pacific Ry. Co., it is reported, to connect Hollywood, Cahuenga Pass, and Lanhershim by a trolley line. R. P. Sherman, Los Angeles, is Gen. Mgr.

LOS ANGELES, CAL.—The board of supervisors have awarded a franchise to F. A. Halburg for an electric R. R. line on Fourth St., Burbank, on his bid of $100. Mr. Halburg is acting for the Pacific Electric R. R. Co., who will extend their Glendale line to Burbank, a distance of five miles. Noted Jan. 19.

SAN RAFAEL, CAL.—A franchise has been applied for by George D. Shearer, to build a railway through certain streets here.

TORONTO, ONT.—See item under miscellaneous contracts: Rail and Ties, Toronto, Ont.

ST. VITAL, MAN.—Having negotiated for a street railway system for the past three years with the Winnipeg Electric Co., the municipality of St. Vital has decided to install its own system and will start work this spring.

SPRINGFIELD, MAN.—The rural council of Springfield have decided to arrange for the construction of a municipal electric street railway system. Address N. J. McGregor, Springfield, Man.

WINNIPEG, MAN.—Franchises for the building of several extensions have been granted by the City Council to the Winnipeg Electric Ry. Co., it is stated. Wilford Phillips, Winnipeg, is Gen. Mgr. & Ch. Engr.

SASKATOON, SASK.—The city is advertising that it is anxious to receive propositions from a company willing to build a street railway system. The population is 18,000. Address James Clinkskill, Mayor.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

PORTSMOUTH, N. H.—Bids will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., April 1, for furnishing a flue, heaters, meter, valves, piping, installing this with other material and equipment furnished by the Government and rearranging piping and equipment now in place at the navy yard, Portsmouth, N. H. Plans and specifications can be obtained on application to the bureau or to the commandant of the navy yard. R. C. Hollyday, Chief of Bureau.

CHELSEA, MASS.—Bids will be received March 15 by the Bd. of Control. Wm. E. McClintock, Chn., for the heating and ventilating plant for the new school house. Plans may be seen at 7 Water St., Boston, by George Huey.

SALEM, MASS.—City Electrician Ashby is preparing plans for placing the municipal fire alarm, police and telephone wires in conduits at an estimated cost of $40,000. About six miles of cable will be required. All wires in the business section of the city will be placed underground.

CUMBERLAND, R. I.—The Lonsdale Company will install a new power-house equipment, it is reported.

GREENWICH, CONN. — CHARLES H. WILLIAMS, Portchester, N. Y., has been awarded the general contract by Devereaux Lake for his new ice plant at East Port Chester. It will be of brick and is estimated to cost $50,000. Two artesian wells will be sunk to supply the plant with water. The ice-making machinery has already been purchased.

MADISON, N. J.—The city authorities will expend $16,687 for improvements and extensions to the municipal electric plant.

PERTH AMBOY, N. J.—The contract has been awarded, it is reported, to E. M. WALDRON CO., Newark, N. J., for mason and other work on the new terra cotta and brick power-house, 180 × 112 ft., to be erected here by the Public Service Ry. Co.

ETNA, PA.—An electric light plant and pumping station, to cost about $50,000, is proposed.

HAZEL DELL, PA.—A municipal electric light plant is being considered.

LOCK HAVEN, PA.—The City Council has, it is reported, instructed the Light and Sanitary Committee to ask for bids for lighting the streets by electricity, and also to ask for bids for the construction of an electric plant to be owned and operated by the city.

SCRANTON, PA.—Announcement has been made by the Scranton Electric Co. that it proposes to spend $1,000,000 in improvements. The making of electricity and steam is to be centralized in the suburban plant in Green Ridge and at the plant on the Lackawanna River. The improvements include the installation of new engines, a complete condenser system, a system of trackage for the hauling of coal to the plants, fireproofing of the entire system and the purchase of several culm dumps. New steam pipes for the heating system are to be run to all parts of the city, and a new electrical plant will be erected in Carbondale.

BALTIMORE, MD.—The Consolidated Gas, Electric Lt. & Power Co., Continental Bldg., has completed plans for a battery-house to be erected adjoining the substation on McClellan Alley, between Fayette and Baltimore Sts., to cost $50,000; also a storage-battery plant costing $250,000.

WASHINGTON, D. C.—Bids will be received until 3 p. m., March 30, for supplying and installing lighting fixtures in the U. S. buildings at Delaware, Ohio; Greencastle, Ind.; Haverhill, Mass.; Jeffersonville, Ind.; Middletown, N. Y.; Pawtucket, R. I.; Peru, Ind., and Sewickley, Pa. Specifications may be obtained at the office of the Supervising Architect. Bids should be addressed to the Supervising Architect, Treasury Department, Washington, D. C., and the envelope indorsed "Proposal for Lighting Fixtures, U. S. Buildings at Delaware, Ohio; Greencastle, Ind.; Haverhill, Mass.; Jeffersonville, Ind.; Middletown, N. Y.; Pawtucket, R. I.; Peru, Ind., and Sewickley, Pa." James Knox Taylor, Supervising Architect.

WASHINGTON, D. C.—Bids will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 p. m., March 27, for supplying and installing lighting fixtures in the U. S. buildings at Appleton, Wis.; Carrollton, Mo.; Hot Springs, Ark.; Oklahoma City, Okla.; Rochester, Minn., and Greenville, Ill.

LOGAN, W. VA.—W. F. Bevill, S. M. Bisant and Charles Bennett, all of this place, are the incorporators of the Logan Electric Co., capital $25,000. The purpose of this company is to build a lighting plant here.

RUTHERFORD, N. C.—See item under Water Supply—Irrigation.

SMITHFIELD, N. C.—See item under Water Supply—Irigation.

ROCK HILL, S. C.—See item under Water Supply—Irrigation.

ST. GEORGE, S. C.—The issuing of $17,000 in bonds, to be used for the construction of an electric light plant and water-works system, is under consideration.

ATLANTA, GA.—Bids will be received by the Superintendent of Prisons, Washington, D. C., until 10 a. m., March 22, for furnishing, delivering and installing at the United States penitentiary, Atlanta, Ga., electric light and telephone wiring, conduit work. Specifications, together with further information, may be had upon application at the office of R. V. Ladlow, Supt. of Prisons.

BARNESVILLE, GA.—Press reports state that the CENTRAL GEORGIA POWER CO., Macon, has been awarded the contract for lighting the city and a plant will be erected.

ALBERTVILLE, ALA.—A bond issue of $7,000 has been voted for the construction of an electric light plant. J. W. Taylor, Albertville, is Engr.

MEMPHIS, TENN.—A municipal electric light plant is under consideration. It is proposed to issue $1,000,000 in bonds to provide funds.

AKRON, OHIO.—The City Council is considering the question of constructing a municipal electric light plant.

BARBERTON, OHIO.—The contract for the new switchboard for the Barberton Light & Power Co., a new company recently entering the commercial power and light field in Barberton, has been awarded to THE YOUNGSTOWN ARMATURE & CONSTRUCTION CO., Youngstown, Ohio.

BROOKVILLE, OHIO.—Bids are now being received by the Village of Brookville, Ohio, for electric power, commercial and street lighting. H. E. Wheaton is Corporation Clk., and will furnish further information.

CLEVELAND, OHIO.—The Star Electric Co. has been organized with a capital of $10,000 to furnish electric current for lighting and power purposes. The incorporators are: D. H. Tilden, A. A. McCorkin, Marjorie Ferrall, J. M. Brug and Elmer G. Derr.

SPRINGFIELD, OHIO.—Definite steps are being taken to promote the erection of a municipal lighting plant. The City Council has appointed a committee to make preliminary investigations.

LOGANSPORT, IND.—The contract for furnishing and installing a new engine and pump for the municipal water-works system, to cost $15,459, has been awarded to the ALLIS-CHALMERS CO., Milwaukee.

TERRE HAUTE, IND.—The Citizens Mutual Heating Co. announces that it will erect a power plant between Fifth and Sixth Sts., south of the Vandalia Road. Estimated cost, $100,000.

BRIDGEPORT, ILL.—R. D. Donnelly, W. E. Beyhau and V. H. Lytle are the incorporators of the Bridgeport Lt. & Power Co., capitalized at $25,000. This company will furnish light, heat and power to Bridgeport.

LYNDON, ILL.—The privilege has been granted to E. A. Smith, H. S. Green and J. J. Hurlburt, all of Morrison, Ill., to build a dam here, approximate cost, $450,000. It is stated the Sterling-Moline Traction Co., Sterling, Ill., is interested. The company is planning to furnish power for local towns within a 50-mile radius.

STAUNTON, ILL.—The contract has been awarded to the WESCO SUPPLY CO., St. Louis, Mo., for the installation of electrical apparatus in the municipal electric light plant. Contract price, $6,725.

LOMIRA, WIS.—The Lomira Electric Light & Power Co. has been incorporated with a capital stock of $12,000 to erect and maintain an electric lighting plant. The village has already granted franchise. P. J. Zeidler is Pres.

SPOONER, WIS.—It is reported a plant to furnish light and power for the city will be erected on the Namekagon River. The Council has voted to purchase a site.

WEBSTER CITY, IOWA.—Bids will be received by P. M. Banks, City Clk., until 7.30 p. m., March 21, for the construction of a 1-story fireproof electric light and power plant, 58 × 104 ft. complete, exclusive of heating, plumbing, cement floors, sidewalks and engine beds. Noted Feb. 2.

MINNEAPOLIS, MINN.—Improvements aggregating $1,500,000 will be made by the Minneapolis General Electric Co. Principal among the improvements will be the erection of the Riverside Station at 29th Ave., N. E., on the river bank, to cost $1,000,000. Other improvements planned are a transforming and generating station at 210 Main St., S. E., to cost $300,000; an Edison direct current station, Eleventh St., near Nicollet Ave., $75,000; two-story addition to the office building, 15-17 Fifth St., S.; warehouse equipment, 217 Third St. N.

KANSAS CITY, KAN.—Bids will be received until March 20 by James Knox Taylor, Supervising Archt., Washington, D. C., for an electric passenger elevator in the extension of the U. S. Post-Office at Kansas City.

SEVERY, KAN.—A franchise, it is stated, has been granted to W. H. Mathis and E. J. Mathis, Wichita, Kan., to erect an electric light plant.

GORDON, NEB.—At a special election the citizens voted in favor of the proposition to issue bonds for the installation of electric-light, sewer and water-works systems.

*PLATTSMOUTH, NEB.—Bids will be received at the office of the Supervising Arch., Treasury Department, Washington, D. C., until 3 p. m., March 20, for a conduit and wiring system in the U. S. Post-Office, Plattsmouth, Neb. Plans and specification may be had at the office of the Supervising Arch., Washington, D. C., or at the office of the Supt., at Plattsmouth, Neb.

Bids will also be received for a low-pressure steam-heating apparatus and a plumbing and draining system at the U. S. Post-Office, Plattsmouth, Neb. Plans and specification may be had at the office of the Supervising Arch., Washington, or at the office of the Superintendent of Construction, Plattsmouth, Neb. James Knox Taylor is Supervising Arch.

HANKINSON, N. DAK.—H. G. Squires, of Galesburg, Ill., has applied to the city authorities for a franchise to operate an electric-light plant.

RUGBY, N. DAK.—Bids will be received at the office of the County Auditor of Pierce County, N. Dak., at Rugby, N. Dak., for the heating and ventilating, plumbing, electric wiring and conduits for the new Pierce County court-house and jail, by Henry Albertson, until 2 p. m., April 4. Bids must be made in accordance with the plans and specifications prepared by Buechner & Orth, Archs., and adopted by the Board of County Commissioners of said county. Plans and specifications may be seen at the office of the County Auditor and at the office of Buechner & Orth, Archs., 500 Shubert Bldg., St. Paul, Minn.

LIBBY, MONT.—A site for a plant to generate electricity for the local mining industries has been secured in the western part of Flathead County on the Yaht River by the Milwaukee Electric Power Co., recently incorporated by F. F. Haynes, E. P. Vilas and J. H. Ehlers, all of Spokane, Wash.

AUSTIN, TEX.—C. J. Hardy, an engineer representing the firm of Ford, Bacon & Davis, of New Orleans, has been investigating the situation at Austin with the view of making a proposition to the city on behalf of his principals for the reconstruction of the large dam across the Colorado River and the installation of a hydro-electric plant in connection with the proposed water storage reservoir.

CORPUS CHRISTI, TEX.—See item under Miscellaneous Contracts: Causeway, Corpus Christi, Tex.

HOUSTON, TEX.—Bids will be received until 12 M., March 21, by Edgar Odell Lovett, Pres., 1110-12 Scanlan Bldg., Houston, Tex., for the following contract: For electric wiring and electrical installation. Each bid must be accompanied by a certified check amounting to at least one-third of the bid, made payable to the William M. Rice Institute, as a guarantee that the successful bidder will furnish satisfactory bond in the sum of one-third of the amount of his bid, to execute contract for the work within ten days after the bid is awarded. Plans and specifications may be obtained at the office of Cram, Goodhue & Ferguson, Archs., Scanlan Bldg., Houston, Tex.

MEDFORD, ORE.—The City Council is now taking steps to complete plans for the installation of cluster lights, to be placed at regular distances, according to specifications of the City Engr.

BERKELEY, CAL.—Wm. Barlow, Flood Bldg., San Francisco, is receiving bids for the erection of a concrete power station to be erected here for the Southern Pacific R. R. Co.

LOS ANGELES, CAL.—The Co. Bd. of Supervisors of Los Angeles County has called for plans and estimates of cost for the installation of a generating set in the new Hall of Records to furnish light and power to the county buildings. Estimated cost, about $20,000.

RIVERSIDE, CAL.—The Riverside light and power plant of the Southern California Edison Co., has been sold to the Southern California Gas Co., for $350,000. The new owners plan various extensions.

VALLEJO, CAL.—Bids will be received by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until March 21, for furnishing two turbo generating sets, a motor generating set and per Schedule 3353, to be navy yard, Mare Island, C[illegible]

FORT FRANCIS, ONT.—Ontario Power Co. is conv[illegible] veloped units in the power a pulp mill which will grind at International Falls, Minn[illegible]

WINNIPEG, MAN.—Having [illegible] tract to deliver power for domestic purposes the E[illegible] B[illegible] ing Co. is now making pr[illegible] cities of Brandon and Por[illegible] and will shortly commence [illegible] large power plant on the W[illegible] Lac du Bonnet, Man.

BRIDGES.

*(*Denotes that this work is [illegible] Engineering News[illegible]*

LYNN, MASS.—Plans are be[illegible] the construction of a steel b[illegible] Saugus River. The estimated [illegible]000, the expense to be borne [illegible]ty, the Boston and Northern and the city of Lynn. W[illegible] ball is Chn. County Comn.

NEW LONDON, CONN.—It [illegible] that estimates for a new railr[illegible] span the Thames River, at a [illegible] north of the present structure [illegible] completed, and construction wi[illegible] ing the present year. The cost [illegible] bridge, with piers adaptable to [illegible] will be $2,500,000.

*FREDONIA, N. Y.—Bids will [illegible] by Henry Peterson, Supt. of H[illegible] the Town of Pomfret, until 2 p[illegible] 1, for the construction of a co[illegible] over Candaway Creek at Hunt's[illegible] to plans and specifications on [illegible] office of Frank H. Moir, Town [illegible] donia.

HORNELL, N. Y.—Bids will be [illegible] by the City Clerk until 3 p. m[illegible] 10, for constructing a 44-ft. pla[illegible] bridge. A. F. Bannon, Jr., is Su[illegible] Wks.

*KINGSTON, N. Y.—We are offi[illegible] vised that the contract for constr[illegible] steel bridge across Rondout Creek [illegible] ville, and for the removal of the [illegible] metal structure and the enlargement [illegible] present piers and abutments, ha[illegible] awarded to the LANE BRIDGE CO., [illegible] Post, N. Y., at $16,950. The other [illegible] were: E. J. Doyle & Co., 80 State [illegible] bany, N. Y., $24,500; Owego Bri[illegible] Owego, N. Y., $21,245; York Bri[illegible] York, Pa., $20,551; Lupfer & Rem[illegible] Ellicott Square, Buffalo, N. Y., [illegible] United Construction Co., Albany, [illegible] Penn Bridge Co., Beaver Falls, Pa., [illegible]

LATROBE, PA.—Bids will be rece[illegible] the Controller of Westmoreland Cou[illegible] til March 15, for repairing the D[illegible] bridge, in accordance with plans [illegible] by Emil Swensson, Consult. Engr.

PITTSBURG, PA.—Bids will be [illegible] until March 13 by the City Contr[illegible] constructing the three main piers [illegible] North Side Point Bridge across the A[illegible] River. This part of the work is esti[illegible] $210,000. Joseph G. Armstrong is [illegible] Wks.

WILLIAMSPORT, PA.—Bids will [illegible] ceived by the Commissioners of L[illegible] County at their office in Williamspo[illegible] noon, March 23, for constructing, in [illegible] ance with plans and specifications o[illegible] the commissioners' office, foot walks [illegible] Erie Ave. and Maynard St. bridges [illegible] liamsport, and on the Montoursvill[illegible] at Montoursville, Pa.; also for fu[illegible] and placing steel stringers on the [illegible] River bridge in accordance with pl[illegible] specifications on file. Blank forms [illegible] to bid will be furnished by the [illegible] sioners.

YORK, PA.—Bids will be received [illegible] Commissioners of York County, unti[illegible] 16 for constructing a concrete bridge.

BALTIMORE, MD.—The Baltimore [illegible] R. R., W. S. Bouton, Engr. of [illegible] Engineering Department, Baltimore, [illegible] paring plans for renewing the bridg[illegible] the Monongahela River at Gaston J[illegible] W. Va. The present single-track [illegible] will be converted into a double-tra[illegible] three 200-ft. through-riveted truss [illegible]

EASTON, MD.—The contract f[illegible] structing a pivot draw-bridge and 70[illegible] span over the Choptank River, in co[illegible] with road work, has been awarded [illegible] NELSON-MERYDITH CO., Chamb[illegible] Pa., at $29,810. Noted on Feb. 2[illegible] Streets and Roads.

*DANVILE, VA.—Bids will be rec[illegible] J. O. Magruder, City Engr., unt[illegible] March 28, for constructing a reinfor[illegible] crete arch bridge over Dan River, a[illegible] St. The structure will be about [illegible] long, with a 20-ft. roadway. For [illegible] see advertisement in this issue.

FREDERICKSBURG, VA.—Bids wil[illegible] ceived by P. St. J. Wilson, State [illegible] Comr., Richmond, Va., until noon, M[illegible] for the construction of the following [illegible] in Spottsylvania County: A steel [illegible] 120 ft. long, with 16-ft. roadway, [illegible] structure to be of concrete, over [illegible] River; a steel bridge 35 ft. long, [illegible] ft. roadway, substructure of concre[illegible] Gales Ford; steel bridge, 35 ft. l[illegible] ft. roadway, substructure of concr[illegible] Court House Road, Massaponax Ru[illegible] bridge, 35 ft. long, 12-ft. roadwa[illegible] structure of concrete, over Telegrap[illegible] Massaponax Run. Plans may be [illegible] the office of the Childrey-Sunday C[illegible] mond, Va.

JACKSONVILLE, FLA.—Bids will [illegible] ceived by the Board of Commissio[illegible] Duval County until March 20, for the construction of a reinforced-concrete bridge on the Marietta Road, according to plans and specifications on file in the office of the county engineer. Bids should be addressed to C. W. Ellis, Chn. of Bd., Room 9, Court House, Jacksonville.

MONTGOME ALA.—Plans are being prepared by R. Gilchrist, City Engr., for constructi reinforced concrete bridge, 80 ft. long, 40 ft. wide, at the north end of Ripley

BROOKVIL OHIO.—Bids will be received by the oard of Commissioners of Montgomery y, Frank Munger, Dayton, Ohio, Chn., noon, March 24, for constructing a bridge over Wolf Creek in the village rookville.

CINCINNA OHIO.—Bids will be received by Commissioners of Hamilton County, un arch 24 for constructing a concrete br n Shell Road, near Hanley Road, in n Township. Fred. Dreihs is County

CLEVEL OHIO.—Bids will be received at the offi the Board of Commissioners of Cuy County until 11 a. m., April 5, for bri ork in accordance with the form of ct and specifications to be furnished ank R. Lander, County Surv. John F. bogen is Clk. of Bd.

RICHM IND.—The cost of bridge work projected ayne County is estimated at $20,000. argest bridge proposed is a 200-ft. s an over Beeler Ford in Center Towns estimated at $10,000. A concrete stru 125 ft. long, known as the Simpson e, will be constructed in Jefferson Co For further information apply to Co Commissioners.

RUSHV IND.—See item under Streets and Road

VINCENNES, IND.—The Commissioners of Knox County are asking for bids for the construction of a culvert arch, with parallel concrete walls 80 ft. long, at the highway crossing of the Eastern & Terre Houte R. R.

WINCHESTER, IND.—Bids will be received by the Commissioners of Randolph County, until 10 a. m., March 11, for repairing eight bridges. H. F. Wood is County Audr.

BENTON HARBOR, MICH.—The city is considering the construction of a viaduct to connect East and West High Sts. Preliminary plans have been prepared, providing for a structure 825 ft. long and 28 ft. wide, with 4-ft. sidewalks and a 20-ft. roadway. The cost is estimated at from $14,000 to $18,000.

MARINETTE, WIS.—The contract for constructing a steel span bridge over Menominee River at Hattie St., to be paid for jointly by the cities of Marinette, and Menominee, Mich., has been awarded to the lowest bidder, the WAUSAU IRON WORKS, Wausau, Wis., at $24,468. Other bidders were: Marinette Boiler Works, $29,650; Central States Bridge Co., Indianapolis, Ind., $42,000; John Brogan, Green Bay, Wis., $35,000; Milwaukee Bridge Co., Milwaukee, Wis., $31,000; Joliet Bridge & Iron Co., $32,-300; Worden-Allen Co., Milwaukee, Wis., $27,742.

MILWAUKEE, WIS.—The plans prepared by L. J. Klug, Supt. of Bridges, for the proposed $120,000 Oneida-Wells St. bridge over Milwaukee River, call for a single leaf bascule requiring about 500 tons of structural material, 450 tons of cast iron and 50 tons of machinery. The bridge will be 68 ft. wide from rail to rail, and the channel will be 80 ft. wide. Bids will be asked soon. Harry E. Briggs is Comr. Pub. Wks.

OAKWOOD, WIS.—Bids will be received by John A. Davitz, City Clk. of Franklin, Wis., r. f. d. No. 18, Oakwood, until 2 p. m., March 15, for the construction of a reinforced concrete I-beam bridge, with concrete abutments.

OMAHA, NEB.—Plans have been prepared for the construction of the Eleventh St. viaduct. Estimated cost, $100,000. George Craig is City Engr.

TRINIDAD, COLO.—Bids will be received by the Commissioners of Las Animas County, G. F. Harlan, Chn., until 2 p. m., March 10, for the construction of a bridge on Main Stonewall Road, about six miles west of Trinidad.

ELEPHANT BUTTE, N. MEX.—The contract for erecting a highway bridge in connection with the Rio Grande irrigation project, N. Mex., has been awarded to the MIDLAND BRIDGE CO., Kansas City, Mo., at $5,667.

SEATTLE, WASH.—Press advices are to the effect that the contract for constructing the concrete bridge over Latah Creek has been awarded to C. F. GRAFF, Seattle, the lowest bidder, at $42,900. Noted on March 2.

PORTLAND, ORE.—It is reported that a contract has been awarded by the Spokane Portland and Seattle R. R. Co. to H. A. MC DOUGAL, Milwaukee, Wis., at $400,000, for constructing a steel bridge.

AUBURN, CAL.—Bids will soon be received by the Supervisors of Placer County for constructing a steel truss or a suspension bridge over the North Fork of the American River on the Auburn and Forest Hill Road.

SAN JOSE, CAL.—Bids will soon be received for the construction of a reinforced concrete road bridge on the Meriden Road. The bridge will have a 54-ft. span, and a 31-ft. roadway.

OTTAWA, ONT.—Bids will be received until March 13 for the construction of one reinforced concrete bridge in the Township of Osgoode, and two reinforced concrete bridges, in the Township of Huntley. Charles Macnab, Ottawa, is County Clk.

BUILDINGS.

BARRE, VT.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Barre, Vt., to the WEST CHESTER ENGINEERING CO., 103 Park Ave., New York, at $78,900.

CHELSEA, MASS.—Bids will be received until March 15 by the Board of Control, City Hall for the construction of a school-house on Arlington St. Wm. E. McClintock is Chn.

ROXBURY, MASS.—Plans are being prepared for the construction of a 3-apartment brick block 55 × 62 ft., 3 stories, to cost $50,000. M. M. Kalman, 42 Court St., is Archt.

WATERBURY, CONN.—The George L. Lilley Co. have purchased a site on West Main St. near Leavenworth St. 63 × 120 ft., for the erection of a modern fireproof office building. It will be either eight stories with a store on the first floor and offices above or twelve stories with a store on first three or four floors and for offices above. Architect has not been selected.

BUFFALO, N. Y.—Harris & Merritt, Archs., Erie County Bank Bldg., have completed revised plans and are receiving bids for a store and office building 60 × 95 ft., 3 stories and basement, to be erected at Main and Harvard Sts., by Wm. C. Young.

NEW ROCHELLE, N. Y.—Andrew Carnegie has offered to give $60,000 towards the construction of a library here. The Aldermanic Public Improvement Committee will have further negotiations with him. Harry E. Colwell is Mayor.

NEW YORK, N. Y.—A brick and stone residence will be constructed by Reginald De Koven, 42 East 66th St., at 1025-1029 Park Ave. John R. Pope, 527 Fifth Ave., is the Arch.

Charles C. Thain, 4 East 42d St., has prepared plans for the construction of rear extensions to two 4-story brick dwellings for the Manhattan Center Co., 542 Fifth Ave., at 20-22 46th St. Estimated cost is $75,-000.

T. J. McLaughlins Sons, 207 West 98th St., are having George & Edward Blum, 505 Fifth Ave., prepare plans for the erection of a brick and stone apartment house at 98th St. and Broadway to be eight stories high. The estimated cost is $100,000.

Geo. H. Griebel, 2225 Broadway, is preparing plans for the construction of a 5-story brick and stone workshop for the New York Association for the Blind. The estimated cost is $50,000.

Renwick, Aspinwall & Tucker, 320 Fifth Ave., are preparing plans for the construction of an 8-story brick and stone store and loft building for Lewis & Conger, 130 West 42d St. Estimated cost is $150,000.

The Woodstock Hotel Co. is having plans prepared by Mulliken & Moeller, 103 Park Ave., for the construction of a 12-story brick side extension to the 12-story hotel at 127-135 West 43d st. Estimated cost is $250,000.

Plans have been completed by Sommerfeld & Steckler, 19 Union Sq., for the construction of a 6-sty flat building, 50 × 90 ft., at the southeast corner of Amsterdam Ave. and 156th St. The cost is $50,000.

Moore & Landsiedel are preparing plans for the construction of two 5-story flats, 50 × 103 ft., for Wahlig & Sousin Co. at 168th St. and Fulton Ave. Estimated cost, $120,-000.

The Herbert Dongan Construction Co., 170th St. and Fort Washington Ave., are having Moore & Landsiedel, 148th St. and Third Ave., prepare plans for the construction of a 5-story flat at the southwest corner of St. iNcholas Ave. and 175th St. The estimated cost is $50,000.

Schwartz & Gross, 347 Fifth Ave., have completed plans for the construction of two 12-story apartment houses for the Paterno Construction Co., 440 Riverside Drive. The buildings will be erected on the south side of Cathedral Parkway, 400 ft. west of Amsterdam Ave. The estimated cost is about $300,000.

J. COLLINS, 947 Kent Ave., Brooklyn, has been awarded the contract for the mason work on a 5-story brick building to be constructed for J. Albert & Son., 826 Lexington Ave. H. Holder, 242 Franklin Ave., prepared the plans.

F. C. Zobel, 118 East 28th St., is preparing plans for the construction of a 12-story brick and stone store and loft building to be erected for the Twenty-Fifth oCnstruction Co., 31-33 East 27th St. The estimated cost is about $200,000.

George Fred Pelham, 507 Fifth Ave., is preparing plans for the construction of two 6-story flat buildings to be erected at 141st St. for the Kramer Construction Co., 35 NassauSt. The estimated cost is $400,000.

Fred F. French, 148th St. and Willis Ave., has had Nast & Springstein, 21 Wast 45th St., prepare plans for the construction of two 5-story brick tenements at Park Ave. and 179th St. Cost, about $90,000.

Plans have been completed by Moore & Landsiedel, Third Ave. and 148th St., for the construction of a 4-story flat for the Topping Ave. Co., 1751 Topping Ave., to be constructed on the west side of Topping Ave., 270 ft. north of 174th St.

Bids will be received until 3 p. m., April 18, by James Konx Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including the drainage system, plumbing, pumps, etc.) of the U. S. Barge Office, New York, N. Y. Drawings and specifications may be had at the office of the Chief Engineer and Supt., etc., United States Public Buildings, Room 727, U. S. Custom-House Building, New York, N. Y., or at the office of the Superv. Arch.

SCHENECTADY, N. Y.—The Brown Furniture Co. has adopted plans for the construction of a 5-story store at State and Dock Sts. Estimated cost is $75,000.

YONKERS, N. Y.—The First Reformed Church has sold for $175,000 its property on South Broadway to a Manhattan syndicate which will build on it. The big stone church will be torn down, removed and reerected on another site. Rev. F. W. Cutler is pastor and W. L. Corwin a Trustee.

The Congregation of the South Yonkers Presbyterian Church has decided to erect a new church building and has named a committee to procure plans and estimates. K. G. MacKenzie, 50 Leighton Ave., is on the committee.

PLUCKEMIN, N. J.—Bids will be received by the Board of Education of Bedminster Township until March 11 for constructing a school. P. C. Van Nuys, Somerville, is Arch.

TRENTON, N. J.—Bids will be received until March 15 by the Board of Managers, New Jersey State Hospital, Trenton, for erecting a laundry building and tuberculosis building.

UNION, N. J.—Bids will be received until March 8 by the Board of Education for erecting a school on Hudson Ave. and Lewis St. Joseph D. Luzosch, 408 Kossuth St., is Arch.

CARBONDALE, PA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract to the WEST CHESTER ENGINEERING CO., 103 Park Ave., New York, for the construction of a post-office at Carbondale, Pa., at $55,740.

*HAZLETON, PA.—Bids will be received until April 14 by the Board of School of Controllers for the construction of a high school building here. E. E. Joralemon, Peekskill, N. Y., is Arch.

BALTIMORE, MD.—A warehouse will be constructed by Frank H. Harrison at 13 West German St. The building will be five stories high, of brick and stone construction.

BALTIMORE, MD.—The Roland Park Co., Rolland Park, is having plans make by Howard Sill, 11 East Pleasant St., for six fireproof dwellings, each to be two stories and basement, red tile roof, steam heat, combination fixtures. The cost is about $50,-000. The same company having plans made by Edward L. Palmer, Arch., Roland Park, for eight residences, English Inn type, concrete foundations and walls, covered with stucco, red tile roofs, concrete porches, steam and hot water heat, tile baths, and combination fixtures to cost about $80,000. All the houses are to be erected in Roland Park.

The contract to construct a building for the Polytechnic Institute, North and Guilford Aves., has been awarded to CHARLES L. SLOSKHAUSEN, at $345,000.

Bids will be received until March 22 by the Board of Awards for constructing a school at Williams St. and Warren Ave. The estimated cost is about $130,000.

CUMBERLAND, MD.—The contract has been awarded to HENRY L. BROWN, Philadelphia, Pa., for the construction of a city hall at $70,000.

WASHINGTON, D. C.—Bids were received as follows on March 6, by the Commissioners of the District of Columbia, Wash., D. C., for repairs and alterations to the Western High School building: Thomas J. Melton, $50,417, Washington, D. C.; Skinker & Garrett, $47,529, Washington, D. C.

WASHINGTON, D. C.—Bids were received as follows on Feb. 28 by James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., for the construction of an 8-room school building on Farragut St., between 13th and 14th Sts., N. W., Washington, D. C.: Boyle-Robertson Construction Co., $60,853; R. T. Humphreys, $67,000; oHge & Luebkert oC., $59,872; W. E. Mooney, $66,693; Thomas H. Melton, $59,950; H. J. Montgomery, $64,-800; W. H. McCray, $66,500; Skinker & Garrett, $60,470; Burgess & Parsons, $64,900; Davis Construction Co., $64,882; Arthur P. Smith & Co., $60,021. All of Washington, D. C.

BIG STONE GAP, VA.—James Knox Taylor, Superv. Arch., Treasury Dept. U. S., Washington, D. C., has awarded contract for the construction of a post-office at Big Stone Gap, Va., to the PLOWMAN CONSTRUCTION CO., Philadelphia, at $89,337. (Noted March 2.)

*FORT MONROE, VA.—Bids will be received in triplicate at Fort Monroe until 10 a. m., April 5, by R. B. McBride, for the construction of an isolation hospital at Fort Monroe, including plumbing, heating and electric wiring and fixtures. Address R. B. McBride, Cap. Constr., Q.M., U. S. A.

LYNCHBURG, VA.—The city is having plans prepared by Heard & Caldwell, Lynchburg, for the construction of a city hospital, including a tuberculosis ward.

ROANOKE, VA.—The city has voted bond issues as follows: $230,000 to purchase site and erect city hall and $120,000 to purchase tract for public library, playground and park. F. L. Gibboney is City Engr.

WHEELING, W. VA.—A 10-story hotel will probably be erected here. John L. Boswell is interested.

LEXINGTON, N. C.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. post-office at Lexington to AMBROSE B. STANNARD, St. James Bldg., New York City, at $45,760. (Noted Feb. 23.)

MILLEDGEVILLE, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., has awarded contract for the construction of a post-office at Milledgeville, Ga., to JOHNSON & MATTHEWS CONSTRUCTION CO., Florence, S. C., at $45,-250; May 1, 1912. (Noted in issue of Feb. 16.)

LAKE CITY, FLA.—Bids will be received until March 29 for constructing a 2-story bank building for the First National Bank, Lake City. W. J. Snell, Lake City, is Arch.

ABERDEEN, MISS.—Bids will be received until March 9 by C. L. Tubb for constructing an edifice for the Methodist Church South. R. H. Hunt, Chattanooga, Tenn., is Arch.

JACKSON, MISS.—Bids will be received until April 1 by J. J. Coman, Secy. Bd. of Trustees State Hospital, for heating, plumbing and wiring in hospital. Estimated cost, about $75,000. Whilldin & Price, 711-14 Title Guarantee Bldg., Birmingham, Ala., are Archs.

LAKE CHARLES, LA.—Favrot & Livardais, New Orleans, have been selected by the City Council to prepare plans for the construction of a new city hall. The estimated cost is $75,000.

NEW ORLEANS, LA.—The Fred Miller Brewing Co. is having plans prepared by Wolff & Ewens, Archs., Miller Bldg., Milwaukee, Wis., for a cold storage warehouse and distributing station to be erected here at a cost of $50,000. The building will be equipped with ice and refrigerating machinery.

MOUNT STERLING, KY.—Bids will be received until April 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Mount Sterling, Ky. Drawings and specification may be obtained from the custodian of site at Mount Sterling, Ky., or at the office of the Superv. Arch.

ALLIANCE, OHIO.—Bids will be received until March 21 for $50,000 school improvement bonds. E. W. Diehl is Clk Bd. of Education.

GROVER HILL, OHIO.—Bids will be received until March 20 for the construction of a school here. Robert A. Bradley, 308 Bank Bldg., Indianapolis, Ind., is Arch.

KINGSVILLE, OHIO.—Bids will be received until March 15 for the construction of a town hall at Kingsville.

REEVESVILLE, OHIO.—Bids will be received until March 22 for the construction complete of the Reevesville school building. Howard & Marriam are the Archs.

ROCKFORD, OHIO.—Bids will be received by the Rockford Library Assn., Rockford, until noon, March 10, for labor and materials necessary to construct a public library building at Rockford. Plans and specifications were prepared by W. M. Christen, Arch., Rockford, Ohio.

SHERWOOD, OHIO.—H. C. Lindensmith, Clk. Bd. of Education, will receive bids until March 14 for the erection of a school here. Robert A. Bradley, 308 Bank Bldg., Fort Wayne, Ind., is Arch.

SOUTH EUCLID, OHIO.—Bids will be received until noon, March 29, by the Board of Education of Euclid Township for the construction of a school building. J. W. Dean is Clk. of the Board.

WYOMING, OHIO.—Bids will be received until March 24 for the construction of a colony school here. Garber & Woodward, 906 Andrews Bldg., Cincinnati, are Archs.

BEDFORD, IND.—Bids will be received until March 14 by the Board of School Trustees for the construction of a 2-story brick and stone high school. Dunlap & Van Orman, 909 State Life Bldg., Indianapolis, is Arch.

BRAZIL, IND.—Bids will be received until 3 p. m., April 14, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Brazil. Drawings and specifications may be obtained from the Custodian of site at Brazil, Ind., or at the office of the Superv. Arch.

ELKHART, IND.—The City Council is planning for the erection of a new city hospital building.

EVANSVILLE, IND.—Philip Shora has ordered plans on which he will ask for bids for the erection of a steel, brick and stone building on the site of the one recently destroyed by fire.

INDIANAPOLIS, IND.—The trustees of the Boys' Club, S. M. Melpolder, Secy., have received plans for the erection of a new building. Bids will be received in a few weeks.

LOGANSPORT, IND.—By the will of the late D. D. Dykeman, a public hospital building will be erected in this city to cost $250,-000. Plans will be ready for bidders in a few weeks. The bids will be received by the executor of the Dykeman estate.

SHADELAND, IND.—Bids will be received until March 11 by J. R. Vess, School Trustee, for the construction of a school building here. J. A. Boonstra & Co., Wallace Bldg., Lafayette, is Arch.

SOUTH BEND, IND.—Plans are being made on which bids will be asked soon for the erection of a new nurses' home at the Epworth Hospital on Navarre St. Bids will be received by the trustees of the hospital.

WABASH, IND.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the construction of a U. S. post-office at Wabash, Ind., to JOHN G. UNKEFER, Minerva, Ohio, at $60,500. (Noted Jan. 26.)

WAVELAND, IND.—An architect has been employed by the trustees of the Presbyterian church on which bids will be asked for the erection of a modern brick church building.

DETROIT, MICH.—Albert Kahn & E. Wilby, 800 Trussed Concrete Bldg., are preparing plans for a new 8-story and basement apartment building, 105 × 110 ft., building to contain 65 apartments. Cost about $150,000.

Pollmar & Ropes, 23 Cleland Bldg., have awarded the following contracts for the new 4-story and basement church for the First Presbyterian Church: Masonry, let to PUTNAM & MOORE, 733 Wabash Ave.; carpentry, to A. HINSCH & SONS, 748 Leland St.; steel roofing, to the MICHIGAN CORNICE & SLATE CO., 117 Fort St. East; plastering, to W. HUEBNER, 803 McGraw Ave.

Varney & Winter, Equity Bldg., are preparing plans for the construction of a new 4 and 8-story store building, 68 × 100 ft., and will be ready for figures soon. The building to be of iron and steel construction, terra cotta, mosaic tiling. Cost, $40,000.

Smith, Hinchman & Crylls, 710 Washington Arcade Bldg., are preparing plans and will take figures soon on a 9-story and basement building, 40 × 100 ft., for Mrs. Ellen P. Stevens, 1075 Woodland Ave. The building to be of reinforced-concrete construction, at an estimated cost of $100,000.

GRAND RAPIDS, MICH.—Osgood & Osgood, Widdicomb Bldg., Grand Rapids, Mich., are preparing plans for constructing a business block to be seven stories and basement, 132 × 178 ft., for M. S. & I. H. Keeler, of the Keeler Brass Co. This will cost about $300,000.

LANSING, MICH.—Bids will be received until noon, March 15, for the construction of a hospital building here. E. A. Bowd, Lansing, is Arch.

Bids will be received until noon, April 4, by the Rev. L. I. Brancheau, Lansing, Mich., for the construction of a church building in Lansing. E. H. Bowd, 127 Allegan St., is Arch.

EARLVILLE, ILL.—Bids will be received until March 15 by Dr. Ezra T. Goble, Chn. Bldg. Com., for constructing a public library building. K. White, Nertney, Ottawa, is Arch.

HARRISBURG, ILL.—Bids will be received until 2 p. m., March 10, by the Board of Education, Harrisburg, Ill., for the erection of a 2-story brick and stone school building. J. W. Richardson is Secy.

MURPHYSBORO, ILL.—Bids were received as follows on Feb. 23 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Murphysboro, Ill.: (Item 1, limestone; item 2, sandstone). V. M. Wainwright, Vergennes, Ill., (1) $73,985; George W. Stiles Construction Co., Chicago, (1) $67,244; General Construction Co., Milwaukee, Wis., (1) $75,850; (2) $77,850; Hanson Bros., Chicago, Ill., (1) $76,860; (2) $77,784; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (1) $67,000; (2) $69,900; Christ Kanzler, Evansville, Ind., (1) $73,693; (2) $74,793; R. S. Moore, Lafayette, Ind., (1) $63,848; Kremer & Voirol Construction Co., St. Louis, Mo., (1) $69,300.

CHIPPEWA FALLS, WIS.—THE WISCONSIN CONSTRUCTION CO., Chippewa Falls, Wis., has been awarded the contract for constructing a new high school building for the city of Albert Lea, Minn., at $98,000. William Lester is Pres. and Mgr.

FRANKLIN, WIS.—The Franklin Mission House is contemplating the erection of a new dormitory to accommodate 150 students, to cost approximately $45,000.

FOND DU LAC, WIS.—Bids will be received until March 25 by J. E. Hennen, 74 South Main St., for the construction of an armory building for the Fond du Lac Guards.

MILWAUKEE, WIS.—The construction of a $65,000 building is contemplated by the Jacob Deudenhoefer Co. at Eleventh and National Aves.

MILWAUKEE, WIS.—English Lutheran Church of the Redeemer, 16th St., between Grand Ave. and Wells St., is negotiating for a site on Grand Ave. for the erection of a new edifice to cost not less than $75,000. Rev. W. K. Frick is Pastor.

The Munkwitz Realty Co. has closed a contract with the Blumenfeld, Locher & Brown Co., wholesale millinery, for the erection of a 7-story, fireproof building under a lease of 15 years, at the northwest corner of Mason St. and Broadway. Plans are now being prepared for the Munkwitz Co., calling for an L-shaped building of reinforced-concrete construction, enameled tile exterior, 40 × 60 × 120 ft.; contracts will be awarded soon.

MILWAUKEE, WIS.—The Common Council passed the ordinance providing for the issue of $1,000,000 mortgage certificates for the purpose of erecting a municipal interurban and electric railway terminal and providing for a bond issue of $50,000 to cover preliminary expenses. Proposition will be placed before people at special election in the near future. Harry E. Briggs is Comr. Pub. Wks.

MONDOVI, WIS.—Bids will be received until March 14 by the Rev. August Havorka, Pastor of the Sacred Heart Congregation, for the construction of a parochial school of brick construction. Parkinson & Dockendorff, La Crosse, are Archs.

BLUE EARTH, MINN.—Bids will be received until March 29 for the construction of a brick business block for H. C. Eder Co. Alban & Hausler, St. Paul, Minn., are Archs.

FULDA, MINN.—The Rev. J. N. Bartholome will receive bids until March 16 for constructing brick and stone church.

ST. PAUL, MINN.—Bids will be received until March 15 by N. P. Langford, Chn. Bd. of Control, for the construction of a building here. Clarence H. Johnson, Capital Bank Bldg., is Arch.

WINTHROP, MINN.—Bids will be received until March 20 by Frank Hagberg for the construction of a 2-story, 62 × 66-ft. addition to the High School; also remodeling old building. Charles Webster. Winthrop, is Arch.

MADISON, NEB.—Bids will be received by S. R. McFarland Co. until March 14 for constructing an addition to the jail here.

GROTON, S. DAK.—Bids will be received until March 18 by C. E. Sdwins, 11 oSuth Seventh St., for the construction of an edifice for the Methodist Episcopal Congregation, The Rev. S. E. Brown, Chn. Bldg. Com.

ROCK SPRINGS, WYO.—Bids will be received until March 21 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the basement excavation, and filling of tunnels under the site of the U. S. post office at Rock Springs, Wyo. Specifications and drawings may be obtained from the Custodian of site at Rock Springs, Wyo., or at the office of the Superv. Arch.

HELENA, MONT.—Bids will be received by Thomas E. Goodwin, Clk. School Bd., School Dist. No. 1, 39 Bailey Blk., until March 13, for erecting a 10-room school.

NORMAN, OKLA.—Bids will be received until 10 a. m., March 20, for the construction of a reinforced-concrete bank building here. Bailey & Bailey, 901 Colcord Bldg., Oklahoma.

DENVER, COLO.—A 12-story building will be erected at the west corner of 16th and Welton Sts. by John Good, Sr., Pres. of the Tivoli-Union Brewing Co. The estimated cost is $800,000.

ROSWELL, N. MEX.—Bids were received as follows on Feb. 23 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Roswell, N. Mex.: (Item 1, limestone; item 2, sandstone). C. J. Wagner, Roswell, N. Mex., (1) $138,000; Lyon J. Axtell, Roswell, N. Mex., (1) $123,860; Fred Dieter, Joplin, Mo., (1) $115,306, (2) $114,069; Texas Building Co., Fort Worth, Tex., (1) $135,990, (2) $144,990; J. E. & A. L. Pennock, Philadelphia, (1) $112,400, (2) $114,300; Fell & Ainsworth, Waco, Tex., (1) $117,500, (2) $119,490; L. R. Wright, Dallas, Tex., (1) $129,860, (2) $131,930; W. M. Rice, Amarillo, Tex., (1) $126,500; Dieter & Wenzel Co., Joplin, Mo., (1) $118,500, (2) $117,725; A. W. Anson, Albuquerque, N. Mex., (1) $147,785, (2) $147,285; W. D. Lovell, Minneapolis, Minn., (1) $130,000; King Lumber Co., Charlottesville, Va., (1) $128,782, (2) $133,000; Northern Construction Co., Milwaukee, Wis., (1) $118,500, (2) $117,925; John G. Unkefer, Minerva, Ohio, (1) $124,676; Interstate Construction Co., Ltd., Saginaw, Mich., (1) (2) $129,900; Wm. H. Maxwell, Great Falls, Mont., (1) $151,719; John Bardon, Fort Worth, Tex., (1) $121,000; Stuart & Randall, Oklahoma City, Okla., (1) $116,737; M. B. Whitlock & Co., Denton, Tex., (1) $117,880.

BELLINGHAM, WASH.—Bids will be received until March 23 by James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., for construction complete (except plumbing, gas piping, heating apparatus, elevator, electric conduits and wiring) of the U. S. post-office at Bellingham, Wash. Specifications can be obtained from the Custodian on site at Bellingham, Wash., or at the office of the Superv. Arch.

NORTH YAKIMA, WASH.—James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., has awarded contract for the construction of a U. S. post-office at North Yakima, Wash., to WILLIAM H. MAXWELL, Great Falls, Mont., at $179,554. (Noted Feb. 23.)

SPOKANE, WASH.—Bids will be received until March 28 by James Knox Taylor, Superv. Arch., Treasury Dept., Wash., D. C., for the construction of the additional rooms in the attic of the U. S. post-office, court-house and custom-house at Spokane, Wash. Drawing and specification may be obtained from the Custodian of the building at Spokane, Wash., or at the office of the Superv. Arch.

PORTLAND, ORE.—The contract has been awarded to the NORTHWEST STEEL CO., Portland, Ore., for furnishing the steel work for the Multnomah Amateur Athletic Club building, to be constructed in Portland.

BERKELEY, CAL.—The Regents of the University of California have awarded contract to the ART METAL CO., Jamestown, N. Y., and San Francisco, for steel furnishings and 3-story steel book stack for Boalt Hall, at $64,432. J. H. O. Atkins is Designing Engr.

COLUSA, CAL.—The HOYT BROS. were awarded a contract at $39,980 for erecting the J. J. O'Rourke Bldg., at Fifth and Market Sts. The building will be of stone construction and two stories in height.

EUREKA, CAL.—Bids will be received until March 18 by George W. Cousins for various improvements to jail here. Plans may be obtained from George W. Cousins.

LOS ANGELES, CAL.—Parkinson & Bergstrom, Archs., Security Bldg., have awarded contracts as follows for the 11-story Class A Chester building at Fifth and Spring Sts.: General contract awarded to the NATIONAL FIREPROOF BUILDING CO. (Charles Brooks, representative, Central Bldg.) Cost, $318,000.

LOS ANGELES, CAL.—Bids will be received until 2 p. m., March 13, for the construction of the Detention Home building here. H. J. Le Lande is County Clk.

OAKLAND, CAL.—The city has retained Walter D. Reed, Arch., to prepare preliminary plans for a municipal auditorium to be erected on the shore of Lake Merritt to cost $500,000.

SAN BUENAVENTURA, CAL.—Bids will be received until 2 p. m., March 11, by R. L. Owens, Clk, of the Board of Trustees, for the erection and completion of two high school buildings. Norman F. Marsh, Broadway Central Bldg., Los Angeles, prepared the plans.

SAN FRANCISCO, CAL.—G. W. Kelham, Arch., Crocker Bldg., has awarded contract to C. P. MOORE BUILDING CO., Monadnock Bldg., for general work in the erection of a 2-story brick and steel publishing house on Fourth St. for the Sharon Estate Co., at $53,726.

Engineer Farlow, of the United R. R. Co., has prepared plans and specifications and bids are being taken for the construction of a complete shop building and car barns to be erected for the company on Geneva St.

FRANK M. GARDEN & CO., Nevada Bldg., has been awarded the contract to build a class C church building on Sacramento St. for the First Presbyterian Church Society of San Francisco at $57,980. Wm. C. Hays, 68 Post Ave., is Arch.

FORT FRANCIS, ONT.—The Canadian Northern R. R. Co. is having plans prepared for a tourist hotel to be erected near here at a cost of $200,000. Work will commence this spring.

FORT WILLIAM, ONT.—Bids will be received until March 11 for the construction of the nurses home for the McKellar General Hospital. R. E. Mason, Victoria Block, is Arch.

HARRISTON, ONT.—Bids will be received until March 13 by R. C. Desrochers, Secy. Dept. of Pub. Wks., Ottawa, Ont., for the construction of a public building here.

BRANDON, MAN.—W. H. Shillinglaw, Arch., has completed plans for the new curling rink to cost $40,000. Bids will be received this month.

WINNIPEG, MAN.—Secretary Patton states that bids will be received shortly for the central Y. M. C. A. building to cost approximately $275,000.

G. Gate & Sons, plumbers, have purchased a site and announce they will at once have plans prepared for a 3-story, 66 × 160-ft. block on Higgins Ave.

The contract for the north end Y. M. C. A. building has been let to BRYN JOLFSSON CO. at $100,000.

REGINA, SASK.—L. V. Ker has awarded the contract to the PARSONS CONSTRUCTION CO. for the construction of a 5-story 50 × 100-ft. business block at a cost of $60,000.

CALGARY, ALTA.—Bids will be received until March 10 for the construction of a stone and brick building to be erected on Seventh Ave. for Judge Travis Hodgson. Bates & Butler, Grain Exchange, Calgary, are Archs.

EDMONTON, ALTA.—R. W. Lines, Arch., has been awarded first prize of $350 for the new $100,000 stock pavilion to be erected by the exhibition association.

WATER SUPPLY—IRRIGATION.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids will be received until March 14 by the Superintendent of Supplies, Tremont Bldg., for 65 tons of 6-in., 300 tons of 8-in., 275 tons of 10-in., 750 tons of 12-in., 560 tons of 16-in., 560 tons of 30-in., and 370 tons of 36-in. pipe, and 25 tons of special castings. J. Edward Mullen is Supt. Supply Dept.

Bids will be received until March 15 by the Supply Department, Tremont Bldg., for the following for the Public Works Department, Water Service: 72,000 lbs. of curves, 88,000 lbs. sleeves, 100,000 lbs. gate castings, 110,000 lbs. hydrant castings, 17,000 lbs. hydrant pots, 115,000 lbs. shoes, 167,000 lbs. branches, 26,000 lbs. reducers, 12,000 lbs. caps, 43,000 lbs. offsets, 200,000 lbs. No. 2 iron castings; and same date for 8,000 lbs. of No. 1 composition castings, 30,000 lbs. of No. 2 composition castings, 3,500 lbs. of No. 3 composition castings. J. Edward Mullen is Supt. Supplies.

BROCKTON, MASS.—Plans for twin reservoirs, each of 4,000,000 gallons capacity, have been prepared by Charles R. Felton, City Engr. They will be constructed near the site of the old Avon reservoir. Estimated cost, $125,000. In order that work may be begun immediately after land is procured for a site at the corner of South and Central Sts., Avon, a loan order for $100,000 will be made. Later in the year another order for $50,000 will be authorized by the City Council, should the work be so far advanced as to make the additional money necessary for continuance. Part of these sums will be used for the purchase of 5,600 ft. of 30-in. pipe, for an air line pipe line, from the reservoirs to the Woodward Ave. main line, and also for 18-in. pipe to be laid in North Main St. following the widening of that street from Pleasant St. to Prospect St.

EVERETT, MASS.—Bids will be received until 7.30 p. m., March 10, by the Board of Public Works for furnishing from 300 to 1,000 ⅝-in. disc water meters with connections. James Chambers is Chn.

NORWICH, CONN.—The city has decided to issue $320,000 of bonds, it is reported, for the development of the Stoney Brook proposed water supply.

ALBANY, N. Y.—The Consulting Engineer of the State Water Supply Commission, Albany, in his report regarding the proposed improvement of the upper Hudson River, recommends the construction of a storage reservoir on Sacandaga River, at Conklingville. The Commission has approved the report, and plans and specifications for the reservoir will soon be completed. Estimated cost, $4,650,000, to be borne by the counties, cities and towns in the vicinity of the reservoir.

BUFFALO, N. Y.—The city is considering a bond issue for $1,000,000 for the equipment of the new water plant. Francis G. Ward is Comr. Pub. Wks.

*FORT TERRY, N. Y.—Bids were received on Feb. 28, by Capt. F. T. Arnold, Constr. Q. M., U. S. A., New London, Conn., for (a) the construction of a reinforced-concrete reservoir and (b) extension to the water main at Fort Terry. The bids follow: Sperry Engineering Co., New Haven, Conn., (a) and (b) $11,110; A. Benvenuti, New London, Conn., (b) $1,400; Connecticut Engineering & Contracting Co., Norwich, Conn., (a) $6,750, (b) $1,050; Francis J. Boas, Philadelphia, Pa., (a) and (b) $14,300; John J. Fitzpatrick & Sons, Plattsburg, N. Y., $13,578, (b) $1,700; Alexander Johnstone Bldg. Corporation, Waterbury, Conn., $13,772; Amity Construction Co., New York City, $9,636; F. H. Redden Construction Co., New London, Conn., (a) and (b) $11,670; R. H. Whipple & Co., Worcester, Mass., (a) and (b) $10,973; F. H. Schwiers, Jr., Co., New York, (a) and (b) $12,000; alternate of F. H. Schwiers, Jr., Co., $11,415; Neil Farnham, Inc., New York, (a) and (b) $21,980; M. L. Bayard & Co., Philadelphia, Pa., (a) and (b) $17,000; alternate of M. L. Bayard & Co., $15,000; Pierson Engineering & Construction Co., Bristol, Conn., (a) and (b) $12,500.

KEESEVILLE, N. Y.—Bids will be received until April 5 by J. B. Mace, Pres. Bd. Water Comrs., for laying c.-i. water pipe and constructing a reservoir and standpipe and foundations. W. G. Stone is Engr., 9 Mann Bldg., Utica, N. Y.

MOUNT MORRIS, N. Y.—The taxpayers have voted to spend $100,000 for the construction of a new water system.

NEW YORK, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., March 16, for furnishing all the labor and materials required for providing and installing pumping machinery, connections and appurtenances, and for the erection and completion of small pumphouse at the New York City Farm Colony, Boro. Richmond, City of New York. Michael J. Drummond is Comr.

Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until March 15, for furnishing and driving wells and appur[illegible]ces. Section 1, furnishing and driving [illegible]ls; furnishing, delivering and laying [illegible]n mains and appurtenances in South[illegible] Boulevard, between Grant City and Ol[illegible]wn Road. Section 2, furnishing and [illegible]ng wells, furnishing, delivering and la[illegible] suction mains and appurtenances in So[illegible]ld Boulevard between Grant City and [illegible]tlock.

Bids will be received b[illegible] Park Board, Dept. of Parks, until 3 p. [illegible] March 16, for furnishing and installing [illegible]ter pipe and appurtenances in Coloni[illegible]ark, between 150th and 152nd Sts.

TROY, N. Y.—Bids will [illegible]eceived until March 31, not March 1[illegible] stated last week, by the Board of Co[illegible] and Supply for the construction of a r[illegible]ir and spillway to cost $200,000. E[illegible] S. Osborne is Supt. W.-Wks.

YONKERS, N. Y.—The [illegible] is considering the construction of ad[illegible]al filtration beds. Allen Hazen, 103 [illegible] Ave., New York, is Consult. Engr.

WHEELING, W. VA.—The [illegible] Council is considering an issuance of $[illegible]0 of bonds for the construction of a fil[illegible]n plant. C. B. Cooke is City Engr.

RUTHERFORDTON, N. C[illegible] city has voted $35,000 of bonds for [illegible]onstruction of water-works and an elec[illegible]ght plant.

SMITHFIELD, N. C.—The [illegible] has voted $55,000 of bonds for the [illegible]uction of water-works, electric light [illegible]t and a sewer system.

ROCKHILL, S. C.—The wa[illegible]works and electric light plant here will [illegible] improved. Rudolph Hering, 170 Broadway, New York, is Engr.

AMERICUS, GA.—The city i[illegible]nsidering issuing bonds for $65,000 for the [illegible]struction of water and sewer improvemen[illegible]

ST. PETERSBURG, FLA.—[illegible] Water Works Committee is having pl[illegible] prepared for the construction of a reserv[illegible] to be located west of the pumping stat[illegible] Capacity, 225,000 gallons. C. B. McCl[illegible] is Chn. Com.

MANCHESTER, TENN.—An is[illegible] of $25,000 of bonds for water and ligh[illegible] improvements has been authorized by the Legislature.

NASHVILLE, TENN.—The contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., Chattanooga, Tenn., it is reported, for furnishing water pipe to the city. Estimated cost, $20,000.

OWENSBORO, KY.—Plans and specifications are being prepared by Burge[illegible] & Long Hydraulic and Chemical Engrs., 828 Columbus Savings and Trust Bldg., Columbus, Ohio, for the municipal water softening plant, bids for which will be received March 10. Noted on Feb. 23.

AKRON, OHIO.—The Akron Water Works Co., it is reported, will make improvements to its system, including the installation of a softening plant.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. Pub. Serv. Until March 16, for 1,000 tons of c. i. pipe and 90 tons of special castings for the Water-Works Department.

COSHOCTON, OHIO.—Bids were opened on Feb. 25 by the city for the construction, delivery and erection of either a 3,000,000 or a 4,000,000-gallon steam pumping engine or a 3,000,000-gallon centrifugal electrical driven pump for the Water Works Department as follows: Platt Iron Works, Dayton, Ohio, steam, 3,000,000-gallon pump, $24,715; steam, 4,000,000-gallon, $25,430; each to be completed in six or seven months; 2-unit electric, 3,000,000, $9,660; 4,000,000, $10,060; four months on each. Holly Mfg. Co., Buffalo, N. Y., steam, 3,000,000, $17,980; 4,0000,000, $19,130; each six months; electrical, 3,000,000, $11,800. Allis-Chalmers Co., Milwaukee, Wis., steam, 3,000,000, $22,485, 5½ months; 4,000,000, $26,467, six months; electrical, 3,000,000, $12,500. American Well Co., Chicago, Ill., electrical, 3,000,000, $6,237; 4,000,000, $8,178; each 95 days. Dravo-Doyle Co., electrical, 3,000,000, $7,700; 4,000,000, $8,000; each 110 days.

ELYRIA, OHIO.—The city will issue $50,000 of bonds for laying a new reinforced water main for the East Side factory district.

CINCINNATI, OHIO.—Bids will be received at the office of the Director of Public Service until noon, March 13, for laying c.-i. pipe, special castings and valves, and other miscellaneous work in connection therewith, for the water distribution system of the city, in North Bend Road, from Cheviot to College Hill. Plans, specifications, etc., can be obtained at the office of the General Superintendent of Water-works Department. John J. Wenner is Clk.

CLEVELAND, OHIO.—Bids will be received until noon, March 13, by A. B. Lea, Dir. Pub. Ser., for furnishing pig lead to the Water Department.

CLEVELAND HEIGHTS, OHIO.—Bids will be received until noon, March 28, by H. H. Vanfield, Village Clk., for furnishing the materials and labor necessary for the improvement of Crest Road, from the south line of Mayfield Road to Wood Road, by constructing a 6-in. water main according to the plans and specifications on file at the office of the Clerk, Town Hall, and at the office of the F. A. Pease Engineering Co., Williamson Bldg., Cleveland, Ohio.

FERNBANK, OHIO.—Bids will be received until March 20 by W. Ellwood Wynne, Village Clk., for furnishing and laying 14,125 ft. of 4, 6 and 12-in. water pipe, 504 [illegible] and 12-in. valves and boxes, 34 fire hydrants and 16,500 lbs. of special castings. Bids may be submitted as a whole or separately on labor and materials.

MARIETTA, OHIO.—See item under Streets and Roads.

NILES, OHIO.—We are officially advised that Burgess & Long, Hydraulic and Chemical Engrs., 828 Columbus Savings and Trust Bldg., Columbus, Ohio, have been retained to prepare plans and specifications for [illegible] 3,000,000-gallon water purification plant for

the city ... cost approximately $40,000. Bids for the work will be received during the latter part of this month.

ZANESVILLE, OHIO.—Bids will be received ... Board of Public Works until March ... furnishing 4,100 ft. of 16, 10, 8 and 6-in. water pipe, with the necessary specials and water gates. M. L. J. Logsdon is Secy. Herbert Harris is City Engr.

MONTICELLO, IND.—The Board of Public Works is planning to ask for bids for the improvement of the water-works plant.

NATIONAL MILITARY HOME, IND.—Bids will be received by J. W. Sanderson, Treas., Marion Branch, N. H. D. V. S., National Military Home, until 1 p. m., March 25, for machinery and materials for the improvement of the water supply at the Marion Branch.

DETROIT, MICH.—Bids will be received until ... March 14, by the Board of Water Commissioners for one 48-in. Venturi meter, and for 1,000 water meters ranging in size from ⅝ to 6-in.; also about 200 sleeves and valves from 4 to 48-in. B. F. Guiney, Secy. Bd.

AURORA, ILL.—Bids will be received until 5 p. m., March 17, by the Board of Public Works for a 160-ft. brick chimney, with a 9-ft. inside diameter, to be constructed at the pumping station; also for two 230-HP. Babcock & Wilcox type boilers, to be installed at the pumping station.

SPRINGFIELD, ILL.—The CULVER CONSTRUCTION CO., of Springfield, has submitted the lowest bid to the City Council and has been awarded the contract for the construction of the new boiler-house at the municipal water-works pumping station at $41,48....

WATERTOWN, WIS.—Bids will be received until March 18 by William F. Voss, Secy. Bd. Water Comrs., for drilling and casing a deep well.

ADAIR, IOWA.—Bids will be received until 10 a. m., March 10, by the town at the office of the Town Clerk, for the construction of a water and lighting system. The W. K. Palmer Co. is Engr.-in-Charge, Dwight Bldg., Kansas City, Mo.

CORYDON, IOWA.—We are officially advised that bids were received by the city as follows on Feb. 28, for constructing water works complete: BASH & GRAY, Joplin, Mo., $26,892 (awarded contract); Cook Construction Co., Des Moines, Iowa, $30,414; Des Moines Bridge & Iron Co., Des Moines, $25,975; Katz-Craig Construction Co., Omaha, Neb., $26,450; C. W. Rolland Co., Des Moines, $33,932.

NEVADA, IOWA.—Bids will be received by R. A. Davis, City Clk., until 7.30 p. m., March 20, for extensions to the city water plant, including about 1,170 ft. of 6-in. and 5,530 ft. of 4-in. mains, 18 hydrants, one 6-in. and three 4-in. gate valves and fittings to be best quality c.-i. water pipe with hub and spigot ends.

DULUTH, MINN.—The Board of Water and Light Commissioners has awarded the contract for 3,571 tons of c. i. water and gas pipe to be used during the year to the U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill., at $23.83 per ton, or $85,112. Other bidders were: The American Car & Foundry Co., of Detroit, $25.35 per ton, or $86,954; R. D. Wood & Co., Philadelphia, $24.35 per ton, or $87,716.

LURAY, KAN.—The citizens voted on Feb. 14 to issue $20,000 of bonds for the construction of water-works. Rollins & Westover, Kansas City, Mo., are Engrs.

CARTER, S. DAK.—The City Council has decided to construct a municipal water system. Estimated cost, $7,000.

*BOZEMAN, MONT.—Bids will be received at the office of A. M. Brandenburg, City Clk., until 5 p. m., March 16, for laying concrete on the side-slopes and bottom of the enlarged reservoir of the Bozeman City Water Works, amounting to about 4,840 sq. yds.

KANSAS CITY, MO.—Bids will be received by the Board of Fire and Water Commissioners, E. B. Harrington, Secy., until March 30, for the construction of a self-contained vertical triple-expansion crank and flywheel pumping engine of 20,000,000 gallons capacity in 24 hours.

CHRISTINE, TEX.—The Christine Immigration and Improvement Association has awarded the contract to BARTLETT & WEUNCH, of Christine, for drilling an artesian well to a depth of 1,500 ft., if necessary, to secure flowing water.

ELECTRA, TEX.—The city is planning to construct a water-works system. Address S. Walker.

JACKSBORO, TEX.—Bids will be received by the City Council and H. C. McClure, Mayor, until March 15, for furnishing material and constructing water-works. The work will require 400 tons of 6-in. and 8-in. c.-i. water pipe, eight tons special castings, five 8-in. and 15 6-in. gate valves, 20 hydrants, laying four miles of 6-in. and 8-in. pipe, 75,000-gallon elevated water tower, 50,000-gallon reinforced-concrete reservoir, two 80-HP. horizontal tubular boilers with feed-water heater and pump, 500 gallons per min. capacity duplex-compound pump, 100 cu. ft. per min. capacity air compressor and pumping station. Plans and specifications, form of contracts and bond with instructions to bidders may be seen at the office of the City Secretary or at the office of N. Werenskiold, Consult. Engr., Dallas, Tex. Noted on March 2.

ADA, OKLA.—Bids will be received by the city about the middle of April for the construction of a water-works system. Estimated cost, $140,000. Goodwin & Harper, Consult. Engrs., Kansas City, Mo., prepared the plans.

BOYNTON, OKLA.—The city is considering the construction of a water-works system.

EL RENO, OKLA.—Bids will be received until March 27 by F. T. Stackpole, City Clk., for the construction of a water-works system. Estimated cost, $60,000. Burns & McDonnell are Consult. Engrs., Scarritt Bldg., Kansas City, Mo.

LAMONT, OKLA.—The city has voted $20,000 of bonds for the construction of water-works.

OKLAHOMA CITY, OKLA.—The citizens have defeated the proposition to issue $1,250,000 of water bonds. The proposition will be again voted upon. Bob Parman is City Clk.

*DENVER, COLO.—Bids will be received at the office of the United States Reclamation Service, Denver, until 10 a. m., April 3, for furnishing 130,000 bbls. of Portland cement, f. o. b. cars at the works of the bidder. For particulars address the U. S. Reclamation Service, Washington, D. C., or Denver. R. A. Ballinger is secretary.

CHAMA, N. MEX.—The Chama Valley Land & Irrigation Co. of Kansas City, Mo., has been incorporated with a capital of $100,000. The directors are: A. D. Hart, William Kent, and O. O. Carr, of Chama. The company will engage in a general land and irrigation business.

LAS CRUCES, N. MEX.—The city is considering the construction of a municipal water-works and sewerage system.

OGDEN, UTAH.—We are officially advised that bids were received as follows on Feb. 27 by the city for the construction of the Cold Water Canyon Conduit: Engineer's estimate, $74,964. J. P. O'Neill, $67,463; Lynch-Cannon Engineering Co., $68,989; Moran Contracting Co., $74,904; P. J. Moran, $76,747; Wheelwright Construction Co., $78,575; Gillis Construction Co., $79,914; McKay & Reed, $82,547; Strange & McGuire, $82,279.

SALT LAKE CITY, UTAH.—Plans are being prepared by G. F. McGonagle, City Engr., for constructing an additional water supply system. The work will include widening and deepening East Jordan Canal.

CARSON CITY, NEV.—The Secretary of the Interior has authorized the Reclamation Service to construct by force account a large dam on the Carson River for storage purposes, in connection with the Truckee-Carson irrigation project, Nevada. The service has commenced the assembling of the necessary plant and equipment for the prosecution of the work. In this connection a contract has been awarded the MARION STEAM SHOVEL CO., of San Francisco, Cal., for furnishing two 1¼-yd. steam shovels at $13,400. D. W. Cole is Project Engr., Fallon, Nev.

TUCSON, ARIZ.—The Cotton Land & Water Co., of Tucson, will begin work soon on the reclamation of 50,000 acres of land in Mojave Valley. Concrete channels will be constructed from the Colorado River, and pumping plants established.

FORT GEORGE WRIGHT (Spokane post-office), WASH.—Bids will be received until 11 a. m., March 11, by Lieut. A. L. Sneed, Constr. Q. M., U. S. A., Fort George Wright, for sinking a 10-in. tubular deep well at the post.

KINGSBURG, CAL.—Bids will be received by the City Trustees until March 15 for constructing the municipal water system. The work will include the construction of a 60,000-gallon elevated steel tank pumping station, reservoirs, and laying 28,500 ft. of 4-in. and 2,600 ft. of 8-in. pipe. Estimated cost, about $36,000. Olmstead & Gillelen, Wright & Callender Bldg., Los Angeles, Cal., prepared plans. Noted on March 2.

MADERA, CAL.—Bids were received as follows on Feb. 20 by the City Trustees for the construction of the water system complete: F. C. Roberts & Co., $46,133, and $46,258; Pacific Fire Extinguisher Co., $53,033; Western Engineering & Water Supply Co., $43,987, not including wells.

SAN DIEGO, CAL.—Plans are being prepared by H. R. Fay, Supt. Municipal W.-Wks., for the machinery to equip the reservoir station at Point Loma. A 60-HP. engine and centrifugal pump will be installed; 12-in. mains and laterals will be laid, and a brick pumping plant constructed. Bids for the work will be asked soon.

SAN FRANCISCO, CAL.—The city has awarded the following contracts: For furnishing, testing and delivering gate and check valves for the auxiliary water system for fire protection, to the UNION MACHINE CO., at $11,598; to the UNION IRON WORKS, for furnishing and delivering bolts, tie rods, etc., for the auxiliary water system at $106 per ton.

SAN JACINTO, CAL.—The Ramona Power & Irrigation Co. has decided to install a reservoir system for irrigation purposes.

SAN LUIS OBISPO, CAL.—Bids will be received by the City Trustees until 7.30 p. m., March 13, for water pipe and fittings for the improvement of the water system.

VALLEJO, CAL.—Bids will be received until March 25 by the Bureau Yards and Docks, Navy Dept., Washington, D. C., for furnishing material and installing a circulating loop to supply condensing water for Building No. 121, Central Power Station, at the Navy Yard, Mare Island, per specification No. 1773. Estimated cost, $32,000. R. C. Hollyday is Ch. Bureau.

MONTREAL, QUE.—Plans and specifications for the proposed filtration plant here are being prepared by Hering & Fuller, 170 Broadway, New York. It is expected that the drawings will be completed in about 90 days. Estimated cost, $1,250,000.

OTTAWA, ONT.—The city has awarded the following contracts for supplies for 1911: Cast iron pipes to the CANADA IRON CO., at $11,538; special pipe castings to same, at $2.70 per cwt; hydrants, to CHAUDIERE MACHINE CO., at $38.50 each; valves, to same; casting to Thomas Lawson & Sons, at $3.25 per cwt.

WINNIPEG, MAN.—Bids will be received until 11 a. m., March 29, by M. Peterson, Secy. Bd. of Control, for supplying c. i. water pipe required for water-works and sewerage extensions during the present year. Specifications may be obtained from H. N. Ruttan, City Engr.

MOOSE JAW, SASK.—Bids will be received until 8.30 p. m., April 10, by W. F. Heal, City Clk., for water and sewer extensions. J. M. Wilson is City Engr.

*SASKATOON, SASK.—Bids will be received until noon, March 31, by the city for the installation of a mechanical filtration plant. W. B. Neil is City Comr.

SEWERS.

BOSTON, MASS.—See item under Streets and Roads.

BOSTON, MASS.—The following bids for cleaning catch basins were opened on Feb. 27 by Louis K. Rourke, Comr. of Pub. Wks. Prices are for per cu. yd., and the different figures by the same bidder are for various districts: J. L. Pierce & Co., $1.04 and 96 cts.; W. H. Lynch, $1.10, $1.10, $1.10, $1.09 $1.20; Joseph Sprussler, 94 cts and $1.14; T. F. Carroll, $1.04, 87 cts., 96 cts., $1.04, $1.09; JOS. F. NYHAN, $1.05 (awarded contract for district 3); A. de Stefano, $1.49; R. A. NAGLE, $1.10, $1.23, $1.18 (awarded district 2); JOHN W. COLLINS, 90 cts., $1 (awarded districts 1 and 8); Murphy & Dolan, $1, 97 cts.; T. F. Lynch, $1.10; F. B. McKenney, 90 cts.; JOHN J. LOOMIE, 90 cts., 90 cts. (awarded district 7); JOHN E. GILL, 80 cts. (awarded district 6); D. M. Biggs & Co., $1.05; JOS. M. GREEVEY, 85 cts., 85 cts. (awarded districts 4 and 5).

Bids will be received until March 14 by Supt. of Supplies, Tremont Bldg., for furnishing manhole and catch basin frames and covers, lamp-hole frames and covers, catch-basin grates, tide gates, iron inlets, traps, regulator and other castings. J. Edw. Mullen is Supt. of Supplies.

NEW BRITAIN, CONN.—The Board of Public Works has awarded the contract for furnishing sewer pipe to the city for the ensuing year to the CITY COAL & WOOD CO., whose bid was 79.5% off list price for 10 to 24-in., 80.75% off for 8-in., 2% in 10 days. List of bidders noted on March 2.

NEW HAVEN, CONN.—Bids will be received by C. W. Kelly, City Engr., until March 14 for furnishing the city with blue stone, granite catch basin stone, vitrified sewer pipe, Portland cement, long-leaf Georgia pine timber, and special sewer castings required by the Department of Public Works for the ensuing year. Specifications may be obtained of the City Engr.

*PUTNAM, CONN.—Bids will be received until 4 p. m., March 24, by the City Council for the construction of sewers, including the following: Approximately 600 ft. of 24-in. pipe, 300 ft. of 20-in. pipe, 1,080 ft. of 15-in. pipe, 600 ft. of 12-in. pipe, 1,700 ft. of 10-in. pipe, and 7,900 ft. of 8-in. pipe. Specifications, maps and detailed drawings on file in the office of George W. Perry, Engr. of Sewers.

NEW YORK, N. Y.—Bids will be received until 2.30 p. m., March 16, by the Department of Public Charities, 26th St., New York, for furnishing all the labor and materials required for the construction of sewers and appurtenances thereto for the New York City Farm Colony, Boro. of Richmond, New York. Plans and specifications may be obtained from Michael J. Drummond, Comr.

Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 11 a. m., March 16, for constructing a sewer and appurtenances in East 180th St., between Anthony Ave. and the Grand Boulevard and Concourse; for constructing a sewer in Concord Ave., between 147th St. and 149th St.; for constructing a temporary sewer and appurtenances in Cruger Ave., from a point 128 ft. north of Bartholdi St. to a point 225 ft. north of Bartholdi St.; for constructing receiving basins and appurtenances at the northeast corner of Sedgwick Ave. and West 177th St.; at the southwest corner of Sedgwick Ave. and West 177th St., and at the southwest corner of Sedgwick Ave. and Undercliff Ave.

*WATERTOWN, N. Y.—The following bids were received by the Board of Public Works for the construction of a sanitary trunk sewer in the Second Ward from the Black River to Huntington St.: Charlebois Bros., Watertown, N. Y., $24,608; Lon. B. Cleveland, Watertown, N. Y., $23,001; W. S. Seisper, Watertown, N. Y., $21,618; C. D. Hodge & Co., Watertown, N. Y., $21,275; Philip Thomas, Syracuse, N. Y., $20,966; Samuel Bown, Syracuse, N. Y., $20,209; Burns Bros. & Haley, Watertown, N. Y., $19,343.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners until 3.30 p. m., March 16, for the construction of the following sewers: A 12-in. pipe sewer in Ogden St., between Bridge St. and Orange St., from the terminus of the present sewer 300 ft. south of Clay St., to D. L. & W. R. R. crossing, and between Fourth Ave. and Clark St.; a pipe sewer in Passaic St., from Fourth Ave. to Carlisle Pl., part of this sewer to be 18-in. pipe and part 12-in. pipe together with a branch sewer in Gouverneur St., from Passaic Ave. to Mt. Pleasant Ave. This branch sewer to be 10-in. pipes; also a 10-in. pipe sewer in Camp Alley, from Camp St. for a distance of about 365 ft. southerly. M. R. Sherrerd is City Engr.

PATERSON, N. J.—H. J. Harder, City Engr., has estimated the cost of constructing the new West Paterson sewer, a portion of which, the West Paterson section, will be built this year, at $119,000. The cost of the work to be done this year will be $73,500.

GLASSPORT, PA.—Bids will be received until 8 p. m., March 13, by M. E. Randall, for the construction of 1,152 ft. of 12-in., 925 ft. of 6-in., 1,016 ft. of 18-in. and 426 ft. of 6-in., including manholes, inlet, etc. Plans may be obtained from the Borough Engr.

NORWOOD, PA.—Bids will be received until 8 p. m., March 9, by A. W. McClellan, Boro. Clk., for installing approximately 16,000 ft. of terra cotta sewers, from 8 to 12-in. Plans and specifications at the office of A. F. Damon.

BALTIMORE, MD.—The following bids have been received on Sanitary Contract No. 62, Pratt St. trunk sewer, and Sanitary Contract No. 63, lateral sewers in District 15; Sanitary District No. 62: McCay Engineering Co., 9 East Lexington St., Baltimore, $82,752; John Muller, 120 Law Bldg., Baltimore, $85,117; W. H. & C. F. Thompson, Baltimore, $92,765; Ryan & Reilly, 405 Coleman Bldg., Philadelphia, Pa., $95,036; B. F. Sweeten & Sons, 820 Sharp St., Baltimore, $107,427; The Whiting-Middleton Construction Co., Baltimore, $15,585. Sanitary Contract No. 63: William McCarthy & Co., Baltimore, $75,187; M. J. Beach, Baltimore, $79,890; B. F. Sweeten & Sons, 820 Sharp St., Baltimore, $95,524; David M. Andrew Co., Baltimore, $96,804; W. H. & C. F. Thompson, 627 Law Bldg., Baltimore, $100,654; The Whiting-Middleton Construction Co., Baltimore, $108,689.

MONTROSS, VA.—The city has voted in favor of a $50,000 bond issue for the purpose of improving the sewer and water system in Montross.

SMITHFIELD, N. C.—See item under Water Supply—Irigation.

JACKSONVILLE, FLA.—The contract has been awarded by Philip Prioleau, City Engr., to the REINFORCED CONCRETE CULVERT PIPE CO., Jacksonville, Fla., for furnishing reinforced-concrete pipe for the Margaret St. storm sewer.

JACKSONVILLE, FLA.—Bids will be received until 3 p. m., March 15, by the Trustees for the Water Works and Improvement Bonds for furnishing materials and laying about 250 ft. of 12-in. and 940 ft. of 10-in. c.-i. sewer pipe; laying 600 ft. of 10-in. and 13,400 ft. of 8-in. terra cotta sewer pipe, together with "Y" branches, and building manholes; also for furnishing materials and building 500 ft. of 30-in. and 300 ft. of 24-in. circular brick drains, laying 765 ft. of 12-in. and 2,610 ft. of 15-in. pipe drains and building manholes. W. M. Bostwick, Jr., is Chn. Plans and profile can be seen and specifications obtained at the office of the Board. For further information address R. N. Ellis, C. E., Jacksonville.

COVINGTON, KY.—Bids will be received until March 10 for labor and material necessary to construct a sewer here.

AKRON, OHIO.—Bids will be received until noon, March 14, by the Board of Control for the construction of a sanitary sewer in Crosier St., from a point 80 ft. west of Miami St. to a point 200 ft. west of Washington St.

BOWLING GREEN, OHIO.—An ordinance has been adopted by the City Council to proceed with the construction of a lateral sanitary sewer in South Enterprise St.

CLEVELAND HEIGHTS, OHIO.—Bids will be received until noon, March 28, by H. H. Canfield, Vil. Clk., for the construction of sewers in various streets.

COLUMBUS, OHIO.—See item under Streets and Roads.

IRONTON, OHIO.—The City Council has provided for the issuance of bonds for the construction of sewers in Surage Alley, Vesuvius St. North, Cedar Alley, McGovney Ave., Aid Alley, Mulberry St. and Third St.

LIMA, OHIO.—An ordinance has been adopted by the City Council to proceed with the improvement of Ewing Ave., and Metcalf St. by the construction of a 15-in. vitrified tile sewer.

MARIETTA, OHIO.—See item under Streets and Roads.

BEMENT, ILL.—The following bids were received by the Board of Local Improvements, W. J. Day, Pres., for labor and material necessary to construct a system of storm sewers and also an outflow drain: Henry Rees, Quincy, Ill., $25,200; Henning Vineyard Co., Evansville, Ind., $22,729; R. E. Goodwin & Jno. W. Ryan, Springfield, Ill., $22,318; Samuel F. Ferguson, Danville, Ill., $22,236; ARTHUR BIRT, Decatur, Ill., $22,145 (awarded contract).

*DUNDEE, ILL.—Bids will be received at the Village Clerk's office in West Dundee until 7.30 p. m., March 16, for the construction of a sewer system. Plans and specifications may be obtained at the Village Clerk's office, West Dundee, Ill.

HOMER, ILL.—Bids will be received until March 11 by the Commissioners of Union Drainage District 2 for sewer work to be done in sub-district 3. J. R. Yeazel is Comr.

MADISON, WIS.—The City Council is considering the proposition for the construction of a sewage disposal plant on a 55-acre tract purchased two years ago for this purpose. This would supersede the present plant. It is stated that the plans prepared by City Engineer Icke, provide for five septic tanks and filter beds covering an area. The effluent would be discharged into the Yahara River. The total cost is estimated at $180,000. A test is to be made of the electrolytic process for sewage treatment.

CORYDON, IOWA.—The following bids were received on Feb. 28 for sewer construction, (a) outlet, (b) town sewer: BACH & GRAY, Joplin, Mo., (a) $4,121, (b) $12,424 (awarded contract); M. A. Camery, Harlan, Iowa, (a) $5,390, (b) $21,001; W. H. Merrifield, Monmouth, Ill., (a) $4,984, (b) $14,690; J. W. Turner Improvement Co., Des Moines, Iowa, (a) $3,852, (b) $16,452.

WHEATON, MINN.—Bids will be received until March 10 by the Village Council for the construction of a sewer extension in Broadway St.; also a sewer in State Rd. and Western Ave., commencing at the southerly terminus of the main sewer on Front St. and running in a westerly direction 1,668 ft. to point of intersection of Lind St., with the middle of State Road or Western Ave. G. K. Kristensen is Village Recdr.

MINOT, N. DAK.—Bids will be received until March 27 by the Board of City Commissioners for the construction of four miles of sewers here. E. J. Thomas is City Engr.

CAMERON, TEX.—Bids will be received until March 15 by D. L. Wilson, City Secy., for the construction of a sewer system. Plans and specifications are at the office of the City Engineer.

LEAVENWORTH, WASH.—Guy A. Hamilton, Town Clk., will receive bids until noon, March 14, for the construction of 4,000 lin. ft. of sewer, 10 and 12-in. pipe.

CALEXICO, CAL.—Bids are being taken by J. B. Hoffman, City Clk., for the construction of a municipal sewer system here. The system will require 1,335 ft. of 15-in. sewer, 2,281 ft. of 12-in. sewer, 1,256 ft. of 10-in. sewer, 15,271 ft. of 8-in. sewer, 9,340 ft. of 6-in. sewer, 2 concrete settling tanks, manholes, flush tanks, lamp holes, etc.

SAN BERNARDINO, CAL.—The City Clerk has been instructed to call for bids for constructing a vitrified pipe sewer in B St.; also in Second St. and in various other streets.

MOOSEJAW, SASK.—Bids will be received until 8.30 p. m., April 10, by W. F. Heal, City Clk., for installing a complete sewerage disposal system with pump-house, sedimentation tanks and percolating filters, and for the laying of sewer and water mains and supplying all materials required for the work. J. W. Wilson is City Engr.

*SASKATOON, SASK.—Bids will be received until noon, April 4, by the City Commissioners for pipe laying, furnishing concrete sewer pipe, and cast iron sewer pipe and specials. James Clinkskill is Mayor.

GARBAGE DISPOSAL.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The Boston Disposal Co. has made a proposal to dispose of all the garbage from the districts of Charlestown, City Proper, South Boston, Roxbury, Dorchester and Brighton for $235,000 a year, based on a price of 54½ cts. per ton. Louis K. Rourke is Comr. Pub. Wks.

The following bids were received on March 1 by Louis K. Rourke, Comr. Pub. Wks., for watering and oiling streets. Numbers refer to city districts, and the two prices are for 2-horse and 3-horse hitch respectively: John T. Keough & Bro., No. 9, $4.88 and $6.75; William Gilligan & Co., No. 9, $5 and $5; W. McCabe & Son, No. 8, $4.98; J. B. O'Riorden, No. 2, $5.40, No. 3, $5.40, James E. Noble, No. 7, $5, No. 8, $5.10 and $5.50; John Kelley, No. 4, $5.45, No. 5, $5.45, No. 7, $5.25, No. 8, $5.45; John J. Loomie, No. 6, $5.30; Frank E. Wilson, $4.88; Thomas J. Lynch, $5; M. McGinnis & Co., No. 5, $5; Charles Rossetti, No. 2, $5.35; John H. Winslow Contracting Co., No. 1, $4.94 and $6.49; No. 6, $4.84 and $6.49; Hugh Naun Contracting Co., No. 1, $5.15 and $8, No. 2, $5.75 and $8, No. 3, $5.75 and $8, No. 4, $5.75 and $8, No. 5, $5.15 and $8, No. 6, $5.15 and $8, No. 7, $5.25 and $8, No. 8, $5.25 and $8, No. 9, $5.25 and $8; Joseph Sprissler, No. 4, $5.50, No. 5, $5.50, No. 6, $5.50, No. 7, $5.25, No. 8, $4.85; J. McGreevey, No. 4, $5.35 and $6.50, No. 7, $5 and $6.50, No. 8, $4.95 and $6.80, No. 9, $5.25 and $6.50. Where one figure only is given 2-horse hitch is meant.

WATERBURY, CONN.—The Board of Public Health, on Feb. 13, awarded the contract to HANS RASMUSSEN for collecting garbage for the year beginning April 1, at $12,000.

ROCHESTER, N. Y.—F. T. Elwood, Comr. Pub. Wks., is receiving bids for a refuse incinerating plant to be constructed by the city on Falls St. Estimated cost $100,000.

ERIE, PA.—The city is considering the construction of a municipal garbage disposal plant. Estimated cost, $38,000.

MC KEESPORT, PA.—The city is considering improvements to the garbage plant to cost $6,000. A. J. Richards is Secy. Bd. of Health.

JACKSONVILLE, FLA.—The city will erect a garbage crematory. A site has been selected for the purpose.

COLUMBUS, OHIO.—The proposition of adding an incinerator to the city's waste disposal plant will be presented to the City Council soon. An appropriation of $26,000 will be asked.

FORT OMAHA, NEB.—The contract for the construction, complete, together with installation of machinery, of a crematory building and garbage crematory at Fort Omaha, has been awarded to the MORSE BOULGER DESTRUCTOR CO., 39 Cortlandt St., New York, at $3,680.

BARKELEY, CAL.—The city is considering an issue of $60,000 of bonds for the construction of a municipal incinerating plant.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The city is considering the construction of granolithic sidewalks on Washington St., West Roxbury, from Green to Walk Hill St., a distance of one mile; also the paving of South St., from Centre St. to Arbor Way with brick, with granolithic sidewalks, a distance of one-half mile. Louis K. Rourke is Comr. Pub. Wks.

BOSTON, MASS.—Bids for furnishing 400,000 gallons of emulsion oil, and 400,000 gallons of emulsified road oil, were received by J. Edward Mullen, Supt. Supplies, on Feb. 27, as follows: Standard Oil Co., 26 Broadway, New York, 4 cts. per gallon, 4.95 cts. per gal; Texas Oil Co., 4.9 cts; Gulf Refining Co., 3¾ cts.; 4.75 cts. Noted on Feb. 16.

FORT ANDREWS (Boston post-office), MASS'—The contract for constructing roads, walks, gutters, catch basins, and drain at Fort Andrews, Mass., has been awarded to THOMAS FITZGIBBONS of Beverly, Mass., at $6,630. Noted on Jan. 26.

BUFFALO, N. Y.—Bids will be received by F. G. Ward, Comr. Pub. Wks., until March 10, for paving Willow Pl., and repaving Kremlin Alley, Illinois and Scott Sts.

BUFFALO, N. Y.—The City Council has ordered the paving of Morris St., 26 ft. wide, between Elk and Prenatt Sts., with round edge shale brick; also the repaving of Mohawk St., 36 ft. wide, between Genesee St. and Delaware Ave., with German Rock Co.'s standard asphalt. Francis G. Ward, Comr. Pub. Wks., has been directed to advertise for bids.

DUNKIRK, N. Y.—The Common Council has voted to pave Sixth St. from Bingham Road to Maple Ave., and King St. from Lion to Benton St., according to specifications being prepared by City Engr. John M. Hackett.

HASTINGS, N. Y.—A movement is on foot to improve the old Albany Post Road, making it a boulevard along the Hudson River. The plan is to increase its width to 60 ft., from 30. It is also proposed to build a trolley line along the boulevard from Tartytown to Hastings. F. G. Zinsser is Pres. of Hastings Village.

MOUNT VERNON, N. Y.—The Common Council has decided to repave West Lincoln Ave. and West First St., from Eleventh Ave. to the New York city line. C. J. Hick is City Engr., and A. Beresford is Supt. Paving.

NEW YORK, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 11 a. m., March 16, for repaving, regulating, grading, setting curbstones, flagging sidewalks, laying crosswalks, building approaches, receiving basins, placing manholes, and erecting fences where necessary on various streets.

Bids will be received by Alfred E. Stiers, Pres. Boro. Brooklyn, until 11 a. m., March 15, for improving portions of various streets, by regulating, paving, grading, curbing and laying sidewalks in the Boro. Brooklyn, and for furnishing 60 M. ft., B. M., lumber.

PORT JERVIS, N. Y.—We are officially advised that bids will be asked some time in April for paving estimated to cost $30,000. Theodore Ludlum is Supt. Paving; Irving Righter is City Engr.

ROCHESTER, N. Y.—The lowest bid received for the construction of 42,000 sq. yds. of asphalt repairs and 200 sq. ft. concrete, has been submitted by the Barber Asphalt Paving Co., 880 Ellicott Square, Buffalo, N. Y., at 98 cts. per sq. yd. for asphalt and 50 cts. per sq. yd. for concrete.

YONKERS, N. Y.—The Board of Contract and Supply has approved the proposition to improve Belvedere Pl., from Hawthorne Ave. to the Lawrence estate; also Merriam Ave. and Merriam Pl., from the Bronx River Road to Dana Ave. James V. Mahony is Clk. of Bd.

JERSEY CITY, N. J.—Bids will be received by the Board of Street and Water Commissioners until 2 p. m., March 13, for repaving Jackson Ave. between the north line of Kearney Ave. to the north line of Claremont Ave., on 6-in. concrete base, in accordance with specifications on file in the office of the Clerk of the Board.

JERSEY CITY, N. J.—The contract for improving 14th St., from Park Ave. to the trolley trestle, with a change of grade at Willow Ave. to meet the new viaduct, has been awarded to NOLAN & HORNUNG, at $26,058. The improvement consists of building a new incline to meet the end of the viaduct where it comes out at a height of about four feet above the old level of Willow Ave.

Plans are being prepared for paving the Newark Plank Road with wood or granite block. George P. Bouton is Clk. St. and Water Bd.

NEWARK, N. J.—The following contracts have been awarded for repaving asphalt streets in the city for the years 1911, 1912 and 1913: To the STANDARD BITULITHIC CO., at $1.15 per sq. yd. for resurfacing and $1.19 per sq. yd. for repairs. For furnishing broken stone for road repairs for the years 1911, 1912 and 1913, to FREDERICK VAN KEUREN, Harrison, N. J., at $2.05 per cu. yd.

YOUNGWOOD, PA.—Bids will be received by the Borough Council, Simon George, Clk., until 8 p. m., March 20, for street improvements to include 13,800 cu. yds. of excavation, 41,400 sq. yds. of paving, and 27,570 lin. ft. of curbing. Warren Mitchell, Coulter Bldg., Greensburg, Pa., is Engr.

WILMINGTON, DEL.—The State of Delaware is to have a highway from 60 to 100 ft. wide extending the entire length of the State, a distance of 103 miles. Coleman Du Pont, Pres. Du Pont Powder Co., has offered to advance $1,000,000 for its construction.

BALTIMORE, MD.—Plans have been approved by the Board of Estimates for widening Belair Road from North Ave. to the city limits, changing it from 40 to 80 ft., at a cost of $70,000.

Plans have been submitted by the Park Board for opening Gwynn's Falls Parkway, at a cost of $80,000. This parkway will form a part of the proposed boulevard to connect all the parks in the city. Benjamin T. Fendall is City Engr.

BALTIMORE, MD.—The cost of widening Pratt St. from East Falls Ave. to President St. has been estimated at $47,000. This covers the cost of condemning and acquiring property on the south side of Pratt St. Benjamin T. Fendall is City Engr. and Supt. Paving.

WASHINGTON, D. C.—Bids will be received at the office of Lieut. R. G. Alexander, Q.M., U. S. A., Washington Barracks, D. C., until 10 a. m., March 10, for repairing gravel and macadam roads.

NEWPORT NEWS, VA.—Bids will be received by F. A. Hudgins, City Clk., until March 20, for constructing concrete curb and gutter on both sides of 23d St., between Roanoke and Chestnut Aves.

ROANOKE, VA.—Contracts have been awarded to T. WRIGHT & CO., J. T. MUDDLEMAN, C. MARKLEY and VAUGHAN CONSTRUCTION CO., for the construction of macadam streets and concrete curb and gutters throughout the city at a total cost of $180,000.

GHENT, W. VA.—The contract for laying approximately 8,500 sq. yds. of vitrified brick on Olney Road and Botetourt St. has been awarded to LOUIS S. LAWSON, at $3 per sq. yd., or a total of $25,000.

PARKERSBURG, W. VA.—The Parkersburg District has carried a bond election by which ten miles of road, before the main entrances to the city are to be paved at a cost of $180,000.

WHEELING, W. VA.—The plans and specifications for the improvement of the Glendale County Road have been completed by S. Howe Bonar, County Engr., and bids will soon be asked for the construction work. An appropriation of $15,000 has been made for this work.

*WILMINGTON, N. C.—Bids will be received for paving and curbing Sixth St., from Brunswick to Campbell St., by the Commissioners of Streets, at City Hall, Wilmington, until noon, March 31. The work for which bids are asked consists of approximately 2,740 sq. yds. of brick pavement on a 5-in. concrete base, 1-in. sand cushion filler grout, and 1,160 lin. ft. of 5-in. × 13-in. granite curb; 20% rattler test is required of brick.

BOWLING GREEN, OHIO.—Bids will be received by F. W. Toan, County Audr., until 1 p. m., March 28, for grading, draining and macadamizing the B. J. Gerdes Road, the M. Rush Road and the Edward Baldwin Road.

BUCYRUS, OHIO.—The Road Commissioners of Road District No. 1 in Crawford County, are planning the improvement of several highways, at an estimated cost of $15,000. G. F. Ackermann is County Audr.

CINCINNATI, OHIO.—Bids will be received at the office of the Board of County Commissioners, Stanley Struble, Pres., until March 24, for the improvement of the Broadwell Road from the Round Bottom Road to a point east of the Norfolk & Western R. R. in Anderson Township. Fred Dreihs is Clk. of County Comrs.

CLEVELAND, OHIO.—Bids will be received at the office of the director of public service, Room 104, City Hall, until noon, March 10, for grading, draining, curbing, paving with paving brick and improving several streets. A. B. Lea is Dir. Pub. Ser.

CLEVELAND, OHIO.—We are officially advised that bids will be received by A. B. Lea, Dir. Pub. Serv., until noon, March 10, for 35,300 sq. yds. of brick paving at an estimated cost of $84,266, and 9,000 sq. yds. of Medina stone paving at $37,762. J. P. Payne is Paving Engr.

CLEVELAND HEIGHTS, OHIO.—Bids will be received by H. H. Canfield, Village Clk., Beckman Bldg., Cleveland, until March 28, for grading, draining, paving with asphalt, and constructing sidewalks on Berkshire Road.

COLUMBUS, OHIO.—Resolutions have been adopted by the City Council for the construction of cement sidewalks on both sides of Highland Ave. from Broad St. to Sullivant Ave., Oak St. from Rose to Morrison Ave., and Sullivant Ave. from McDowell St. to Sandusky Ave. Henry Maetzel is City Engr. Thomas Brannan is Supt. Paving.

COLUMBUS, OHIO.—Preliminary plans are being made for street improvements and sewer work to cost $400,000. Henry Maetzel is City Engr., Thomas Brannan, Supt. Paving, and W. J. Weaver, Supt. Sewerage.

EAST LIVERPOOL, OHIO.—The lowest bid received for grading the Lisbon Road from the Township line to the end of the city paving, has been submitted by William McLaughlin, at $5,126.

EAST YOUNGSTOWN, OHIO.—Bids will be received by M. J. Carney, Jr., Village Clk., until March 20, for constructing sidewalks and crosswalks during the year 1911.

HAMDEN, OHIO.—The State Highway Department and the Commissioners of Vinton County are considering the construction of a pike from McArthur to Hamden, a distance of seven miles. S. R. Walker is County Surv.

MARIETTA, OHIO.—Plans and estimates have been prepared by E. Frank Oates, City Engr., for raising Front, Putnam and Greene Sts. to a higher level. The work includes: 67,000 cu. yds. earth fill, $13,000; 26,700 sq. yds. repaving, $40,000; 9,950 lin. ft. curbreset, $2,500; relaying water mains, including new 10-in. main on Front St., $1,700; concrete retaining walls, $5,400; storm water sewers and street inlets, $1,000; raising sanitary sewer openings to grade, $500; relaying sidewalks, $9,000; engineering and contingencies, $7,300; total cost, $80,400.

RICHWOOD, OHIO.—Bids will be received by Ray L. Jordan, Village Clk., until noon, March 25, for improving Blagrove St. from the west line of Fulton St. to the east corporation lines, and North Clinton St. from the north line of Blagrove St. to the south line of Wood St. by paving the roadways with vitrified brick or asphalt block.

SANDUSKY, OHIO.—Bids will be received by John Bing, Dir. of Pub. Serv., until March 9, for furnishing the necessary crushed stone to macadamize and repair streets during the year 1911, in accordance with the specifications on file in the office of the Director.

TOLEDO, OHIO.—Bids will be received by the Director of Public Service, Fred Shane, Secy., until noon, March 15, for paving, grading and curbing various streets.

WAPAKONETA, OHIO.—The contract for paving Mechanic St. has been awarded to J. E. CONLEY & CO., Dayton, Ohio, at $38,066. Noted on Feb. 16.

YOUNGSTOWN, OHIO.—Contracts for paving have been awarded as follows: Griffith St., to CHARLES HARRIS, $6,383; Millicent Ave., to JAMES MC CARRON, $10,343; Jefferson St., to JOSEPH P. MORRISON, $11,498; Hillman St., to J. M. MCGRAW, $12,424; South Ave., KENNEDY BROS., $16,853.

YOUNGSTOWN, OHIO.—Bids will be received by the Commissioners of Mahoning County, Frank Agnew, Secy., until March 13, for paving with brick, slag, limestone, or bituminous macadam, the following roads: Powers Way, 4,900 lin. ft.; Division St., 872 lin. ft.; Shady Run Road, 8,405 lin. ft. The roads are all in Youngstown Township.

GREENSBURG, IND.—The [illegible]ntract for paving Main St. with brick h[illegible]en awarded to DANIELS, LYST & [illegible]LAS, Anderson, Ind., at $70,600. Th[illegible]ere eight bidders for this work.

HAMMOND, IND.—Bids w[illegible] received by the Board of Public Wor[illegible] March 15 for constructing cement [illegible]alks on Indiana Boulevard.

LOGANSPORT, IND.—Plans [illegible] specifications have been prepared by [illegible] Thompson, City Engr., for paving [illegible] St. Bids will soon be asked for this [illegible]

MADISON, IND.—Bids will [illegible]eived by the Commissioners of Jefferso[illegible]n'y until 1 p. m., April 4, for th[illegible] construction of a gravel road in Madison T[illegible]p. Andrew M. Taff is County Audr.

PORTLAND, IND.—A contr[illegible]or the construction of the Cummins [illegible] road on the Jay-Randolph County line [illegible] been awarded to WALLACE & SCH[illegible]TY, at $17,749.

RUSHVILLE, IND.—The Com[illegible]ners of Rush and Shelby Counties are [illegible]ring to ask for bids for the construction [illegible] gravel road on the line between the tw[illegible]unties, including several bridges requir[illegible]n the road.

SOUTH BEND, IND.—Bids will [illegible]eived by the Department of Public W[illegible] Otto C. Bastian, Pres., until 10 a. m[illegible]h 10, for grading, curbing, constructing [illegible]walks, and otherwise repairing various [illegible]s.

ADRIAN, MICH.—Bids will be [illegible]eived by John Mawdsley, City Clk., unt[illegible] m., March 20, for furnishng and [illegible]ering 550,000 first quality repressed pav[illegible] block.

BAY CITY, MICH.—Bids will be [illegible]eived by the Bay County Bridge Comm[illegible]n, J. H. Bloomsfield, Engr., until noon [illegible] March 11, for furnishing 1,400 sq. yds. of [illegible]soted or treated blocks, and 40,000 lin. ft. [illegible] 3-in. × 10-in. × 20-ft. creosoted plank, [illegible]gether with cement necessary for laying bl[illegible]s.

MUSKEGON, MICH.—Bids will be [illegible]eived by the Commissioners of Muskegon [illegible]unty until noon, March 17, for furnishing [illegible] delivering 14,200 cu. yds. of road b[illegible]lding material. John B. Barlow is County Clk.

UPPER ALTON, ILL.—Bids will be received by the Board of Local Improvements of the village of Upper Alton, until 8 p. m., March 14, for grading, curbing, guttering, draining, paving and improving the roadway of Brown St. The work includes 19,615 sq. yds. vitrified brick paving on 4-in. concrete base and 2-in. sand cushion, and 12,748 lin. ft. concrete curb and gutter. The ordinance, plans, profile and specifications are on file in the office of the Village Clerk, and in the office of the Engineer of the Board of Local Improvements where they are open for inspection. S. Crawford is Pres. Bd.; L. L. Yerks is Secy.

FOND DU LAC, WIS.—The City Council has adopted the specifications for paving South Main St. from Tenth St. to the Dutch gap, fixed the width of the street at 40 ft., and instructed the Board of Public Works to call for bids on creosote block, cement and brick.

KENOSHA, WIS.—The WHITE CONSTRUCTION CO., Railway Exchange Bldg., Milwaukee, Wis., has been awarded the contract for paving Lake Ave. with asphalt macadam, at $15,000.

LA CROSSE, WIS.—The sum of $5,000 has been appropriated for improving the road from La Crosse to La Crescent, Minn.

RACINE, WIS.—Bids will be received by the Board of Public Works until 10 a. m., March 25, for paving, grading and otherwise improving portions of various streets. P. H. Connolly is City Engr.

WATERTOWN, WIS.—Bids will be received by the Board of Public Works until 2 p. m., March 25, for approximately 7,500 sq. yds. of vitrified block pavement, 3,650 lin. ft. of combined curb and gutter, 472 lin. ft. of retaining curb and 2,845 cu. yds. of excavation.

BRONSON, IOWA.—Bids for road work in Floyd Township will be received by H. H. Onstot, Clk., Bronson, until noon, April 3.

MUSCATINE, IOWA.—Bids will be received by the city until 7.30 p. m., March 10, for sidewalk construction in the city during the year 1911. Plans and specifications are on file with C. H. Young, City Engr.

RED OAK, IOWA.—Bids will be received by the City Clerk until 10 a. m., March 15, for 6,000 cu. yds. of grading in cut, 25,411 sq. yds. brick block paving, 3,312 sq. yds. of concrete paving, 9,368 lin. ft. of curb and gutter, and 600 lin. ft. of straight curb.

VILLISCA, IOWA.—We are officially advised that the city is considering the construction of 16,505 sq. yds. brick paving, 4,053 lin. ft. combined curb and gutter, and 1,195 lin. ft. curb. Theodore S. De Lay, Creston, Iowa, is Engr.

CROOKSTON, MINN.—We are officially advised that plans are being prepared for paving 21,372 sq. yds. with Wistrumite asphalt macadam. J. E. Carroll is City Engr.

ST. PAUL, MINN.—Bids will be received by the Board of Public Works, John J. O'Leary, Pres., until 2 p. m., March 9, for paving with asphalt, vitrified brick, sandstone blocks, granite blocks and creosoted wood blocks, according to plans and specifications on file in the office of the Board.

ST. PAUL, MINN.—Bids will be received by the Board of Public Works, John J. O'Leary, Pres., until 2 p. m., March 13, [illegible]r curbing, leveling and improving Langf[illegible]d Ave., from Snelling to Hamlin Ave. R. [illegible] Gorman is Clk of Bd.

TOPEKA, KAN.—Bids will be received [illegible] C. B. Burg[illegible], City Clk., Topeka, on Ma[illegible]h 13, 16 and 20 for grading, curbing and p[illegible]ing various streets, avenues and alleys [illegible] the city.

FORT SCOTT, KAN.—Bids will be recei[illegible] by the Board of Commissioners of Bour[illegible] County until March 10 for constructing [illegible]

...miles of rock road in Scott Township. Estimated cost, [illegible],000. F. G. Schwartz is County Clk.

RUGBY, N. DAK.—Bids will be received by the County Board until 2 p. m., April 5, for metal culverts and road machinery for the year 1911. Henry Albertson is County Audr.

WEBB CITY, MO.—Bids will be received by L. A. Wa[illegible]r, City Clk., until **March 20,** for paving with asphalt macadam, curbing and guttering with cement, and constructing cement sidewalks on Madison St. for the distance of one-half mile. Estimated cost, $13,200.

BEAUMONT, TEX.—Bids will be received by the city until March 21, for paving Pearl St. with vitrified brick or wooden block. C. L. Scher[illegible] is City Engr.

HOUSTON, TEX.—Surveys are being made by Frank L. Dormant, Consult. Engr., for paving Montgomery Ave. with vitrified brick and shell. The brick paving will extend from James St. north to the south side of the proposed bridge over Little White Oak Bayou. From the north side of the bridge to the intersection with Montgomery Road, shell will be used.

HOUSTON, TEX.—Surveys are being made for the new boulevard and park system to be constructed by the City from the Southern Pacific Hospital through Highland Park to Houston Heights Boulevard. The proposed road will be 100 ft. wide, and will follow the course of White Oak Bayou. Frank L. Dormant is Consult. Engr.

NORTH YAKIMA, WASH.—Bids will probably be asked in a month for constructing about two miles of bitulithic pavement.

SPOKANE, WASH.—Bids will be received by the Board of Public Works until March 10, for grading, curbing and constructing sidewalks in Third Ward Improvement District No. 1. J. C. Argall is Secy. Bd.

PORTLAND, ORE.—Extensive paving is planned for this year. East 39th St. will be carried through to the site of the proposed Reed Institute, and will be paved for part of its length. Sandy Road will probably be widened to 80 ft. at a cost of $41,456.

ST. JOHNS, ORE.—The city is considering paving Jersey St. for 13 blocks, with Westrumite, at an estimated cost of $25,000 to $30,000.

SELLWOOD (Portland post-office), ORE.—Press advices are to the effect that every street in Sellwood will be paved. There will be between 15 and 19 blocks, the cost averaging $35,000 a mile.

BLACK DIAMOND, CAL.—Bids will be received by the Clerk of the Board of Trustees of the city of Black Diamond until 7.30 p. m., March 13, for improving several streets.

COVINA, CAL.—Bids will be received by A. M. Pence, City Clk., until March 21, for the improvement of Citrus Ave., according to the plans on file in the office of F. G. Dissery, City Engr., Union Trust Bldg., Los Angeles. The work will include 74,000 sq. ft. of asphalt concrete paving; 140,250 sq. ft. of oil macadam paving; 29,250 sq. ft. of concrete gutter; 2,700 lin. ft. of concrete curb; four reinforced concrete culverts. The cost is estimated at $30,000.

LOS ANGELES, CAL.—Bids will be received by the Board of Supervisors until 2 p. m., March 13, for furnishing broken stone to be used in constructing the Foothill Boulevard and the San Fernando Road. H. J. Lelande is County Clk.

PASADENA, CAL.—The contract for paving with oil macadam and constructing cement gutters on Orange Grove Ave., for a distance of 17 blocks, has been awarded to **COX & MATHEWS**, at $25,838.

SANTA MONICA, CAL.—The contract for grading, paving, constructing cement curbs, sidewalks and catch basins on Vicente Terrace Tract, has been awarded to **FRED H. STOUT**, 4246 S. Grand Ave., Los Angeles, at $7,065.

PETROLIA, ONT.—Bids will be received by J. McHattie, Town Clk., until 5 p. m., March 20, for constructing approximately 6,000 sq. yds. vitrified brick pavement and 2,500 lin. ft. concrete curb and gutter.

NEW WESTMINSTER, B. C.—Plans and specifications are now being prepared for a large amount of paving to be done this year.

MEDICINE HAT, ALTA.—The City Council has passed bylaws to provide for the following street improvements: Concrete sidewalks, $83,500; curbs and gutters, $17,500; sidewalks, $5,500; sewers, $51,500.

MANUFACTURING PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—The American Textilose Co. has been organized for the manufacture of textile fabrics. Charles S. Grey is Pres.

MALDEN, MASS.—The Malden Electric Co. has purchased the lot situated at 59 to 61 Centre St. for the purpose of erecting an addition to the plant. The lot adjoins the site of the company's power plant, and is 60 × 90 ft.

SPRINGFIELD, MASS.—The **BERLIN CONSTRUCTION CO.**, of Berlin, Conn., has been awarded the contract for the 1-story foundry building, 100 × 150 ft., to be erected on Pasco St. for the Springfield Foundry Co. It will be of concrete and steel fireproof construction.

BRIDGEPORT, CONN.—The Fletcher Engineering Co., of this city, is preparing plans which will be ready for estimates about March 14, for the plant of the Baird Machine Co., of Oakville, Conn., which will be built on Stratford Ave. This company builds all kinds of light automatic machinery and machine tools. Noted on Feb. 23 under "Stratford, Conn."

NEW BRITAIN, CONN.—The **B. H. HIBBARD CO.** has been awarded the general contract for the proposed factory of the National Spring Bed Co. on Lake St. It will be of brick, 44 × 116 ft., five stories high, the top story to be concrete, steel and fireproof. There will also be a brick boilerhouse, 30 × 40 ft., one story high and a radial brick stack, 90 ft. high. Unkelbach & Perry, of New Britain, are the Archs. Noted on Feb. 23.

Unkelbach & Perry, Archs., have completed plans and estimates are now being received for the factory and office building to be erected at Center and East Main Sts., for Landers, Frary & Clark. It will be of brick, 50 × 360 ft., seven stories high, with artificial stone trim, fireproof stairways, two freight and one passenger elevators, steam heat, sprinkler system, etc. The top floor will be fitted up for the general offices of the company. Noted on Feb. 9.

NORWICH, CONN.—Cudworth & Woodworth, Archs., are preparing plans for additions to the plant of the United States Finishing Co. It is proposed to erect a brick office building and a 3-story brick factory building, 130 × 158 ft.

WILLIMANTIC, CONN.—The following bids have been received by the Willimantic Industrial Co. for the erection of the factory for the Rossie Velvet Co.: E. Brindamour, Willimantic, Conn., $66,653; C. M. Williams, Norwich, Conn., $59,970; A. C. J. Larned & Co., Providence, R. I., $57,900; Latham & Crane, Willimantic, Conn., $56,000; Casper Ranger, Holyoke, Mass., $55,837; L. A. Miller, Meriden, Conn., $54,319; H. Wales Lines Co., Meriden, Conn., $53,540; J. W. Bishop & Co., Worcester, Mass., $52,436; E. K. Watson & Co., Pawtucket, R. I., $51,638; Hartson & Kingsley, Providence, R. I., $51,373; Peck, McWilliams & Co., Norwich, Conn., $49,750; B. F. Smith & Co., Fall River, Mass., $49,727.

ALBANY, N. Y.—It is understood that the Oxfibre Brush Co., which now maintains a plant at Frederick, Md., is about to construct a large building to be used for the manufacture of brushes, on land on Broadway, north of Ferry St. It is stated that six acres have been purchased by the company. Plans for a factory building of reinforced concrete, three stories high, covering a space of 400 × 80 ft., are now in the company's hands for approval. This structure is to be the first of a series of buildings that will be erected by the company on the tract purchased.

BINGHAMTON, N. Y.—Extensive repairs to the plant of the Georgian Mfg. Co. are about to be made and plans for the work have been filed. All the structures will be of concrete and brick. The improvements include the erection of platform scales on the railroad tracks for the use of the factory; a building to be used as a test car storehouse; a core room and a blacksmith shop.

MEDINA, N. Y.—The Ridgeway Lime & Sulphur Co., of which John Crowley is Pres., will build a factory for the manufacture of spraying materials and apparatus.

NORTH TONAWANDA, N. Y.—The Niagara Radiator & Boiler Works will erect eight additional buildings at its plant at Oliver St., Ninth Ave and the Erie R. R., which will double its present capacity, at a cost of $100,000. A new 96-in. cupola and several thousand feet of electric overhead carrier track will also be built. E. C. Andrews is Pres.

The Rudolph Wurlitzer Mfg. Co., of North Tonawanda, manufacturers of musical instruments, will build an addition to its plant near Sawyer's Creek and the New York Central tracks, according to reports.

PENN YAN, N. Y.—The Wagener Shoe Co. is having plans prepared for an extensive addition to its present factory.

MARION (Jersey City post-office), N. J.—The Lyon & Son Brewing Co. has purchased a site at the northeast corner of Broadway and West Side Ave. for the purpose of erecting a brewery.

BUTLER, PA.—The Rodifer Oil Co., of Bremen, Ohio, has, according to reports, awarded a contract to the **PHILLIPS MFG. CO.**, of Butler, for constructing a gasoline plant. When completed, it will have a daily capacity of 400,000 cu. ft. The cost is $10,000.

HARRISBURG, PA.—The Harrisburg Boiler & Mfg. Co. contemplates erecting a plant at 19th and Naudain Sts. The building, which will adjoin the company's present main building, will be 600 ft. long and 400 ft. wide. It will be but one story, with a roof high enough to permit the installation of an electric crane. The improvement will cost about $80,000. The plant will manufacture high and low head turbines, known as the Pelton water wheels.

HUDSON, PA.—Plans are being prepared for the erection of a silk mill here by the Century Throwing Co., of Paterson, N. J. It is reported that the contract has been awarded to **JOHN FERGUSON**, of Wilkes-Barre.

NORTH ROCHESTER (Rochester post-office), PA.—The Pittsburg Bridge & Iron Co., according to reports, plans the erection of various additions to its mill here, to cost $30,000.

PITTSBURG, PA.—The city will erect an asphalt plant, at a cost of about $180,000. The plant will have a capacity of 3,500 sq. yds. a day, it is reported. Joseph G. Armstrong is Dir. of the Dept. of Public Works.

READING, PA.—Plans are being prepared and bids will soon be received for the construction of a steel mill to replace the old North Ninth St. rolling mills, by the Reading Iron Co., it is stated.

SOUTH WILKES-BARRE (Wilkes-Barre post-office), PA.—Bids are being received by the Vulcan Iron Works for the construction of a pattern shop to replace the present one at South Wilkes-Barre. The estimated cost is $100,000.

BALTIMORE, MD.—John T. Lewis Bros. Co., 1015-19 East Fayette St., have awarded the contract to **JOHN K. McIVER**, Wilson Bldg., Baltimore, for the erection of a factory building to replace the present plant. It will be of brick and concrete, 62 × 116 ft., and will cost $15,000 for construction alone. The cost of machinery, including rending furnaces for lead, etc., will be $25,000. The main office of the company is in Philadelphia, Pa.

CANTON (Baltimore post-office), MD.—The Canton Iron & Steel Works, Inc., plans to make extensive improvements to its plant, cost $50,000. The new company is capitalized at $100,000. A large addition will be built and modern machinery installed. John W. Crain, of Philadelphia, is Pres., and J. H. Brown, of Baltimore, Vice-Pres.

FOLLANSBEE, W. VA.—The **A. S. CRAIG CONTRACTING CO.** has been awarded the contract for constructing an addition to the plant of the Sheet Metal Special Co., in Follansbee. The new addition is to cost in the neighborhood of $10,000, and the work of the erection will be started in the near future.

GRAFTON, W. VA.—Plans are being completed for constructing the pottery plant of the Grafton Clay Producing Co., which was recently organized in this city. A State charter has been granted the new company, which has a capital stock of $25,000. The incorporators are: C. T. Bartlett, Clyde A. Cole, H. M. Murray and Charles R. Durbin, all of Grafton, and C. H. Warner, of the Bridgeport Pottery.

PARKERSBURG, W. VA.—According to reports, the U. S. Tile Co. plans to build an addition to its plant here, which will double the present capacity, to cost several thousand dollars.

WILMINGTON, N. C.—Plans have been completed for the development of the pine timber located on 1,800 acres of land on the Cape Fear River, near Wilmington. C. R. Jordan, of Gulf, N. C., has secured the timber and will install a sawmill, dry kilns, tramway, etc., for a daily capacity of from 15,000 to 20,000 ft. of lumber. It is stated that there is from 7,000,000 to 8,000,000 ft. of timber on the property, and that Mr. Jordan is in the market for the machinery and rails required for the plant.

GREENVILE, S. C.—Articles of incorporation have been filed for the Dunean Cotton Mills, of Greenville, with a capital stock of $1,000,000. Ellison A. Smyth, J. Adger Smyth, Jr., H. J. Haynsworth and C. O. Allen, all of Greenville, are the incorporators. The company will build a modern plant of 50,000 spindles and 1,500 looms for manufacturing the finer grades of cotton cloth, and will operate the machinery by electricity. A tract of 225 acres of land has been purchased as site for the plant.

ATLANTA, GA.—The George W. Muller Bank Fixture Co. has been organized with $100,000 capital stock and will erect a plant for manufacturing bank and office fixtures.

JACKSONVILLE, FLA.—A plant to manufacture refrigerators, doors, sashes, interior trimmings, etc., is contemplated here by J. M. Houston, of Chicago, Ill. H. C. Jones, of the Seminole Building Co., of Jacksonville, is also interested.

BOYLES (Birmingham post-office), ALA.—Lewis Minor and associates, it is announced, plan to establish a terra cotta sewer pipe plant on a creek near Boyles. The buildings will be of reinforced concrete, and one of the principal ones will be three stories in height. When the plant is completed, it is expected that at least 150 or 200 men will be employed. The cost, including equipment, etc., will be $200,000.

LAKE CHARLES, LA.—The Waters-Pierce Oil Co., of St. Louis, Mo., has awarded the contract to **P. OLIVER & SONS**, of Lake Charles, for the erection of a distributing plant, consisting of offices, warehouses and stables. It will be of pressed brick and concrete. It will be equipped with electric power for unloading oil. F. W. Fraley is Local Mgr. Cost, $25,000.

CINCINNATI, OHIO.—The Williams Shoe Co. has increased its capital stock to $1,600,000, of which $100,000 will be expended to enlarge and improve the present plant, it is stated.

LORAIN, OHIO.—The Houff-McNeill Co., 1773 Broadway, has been granted a permit for the erection of a grist mill at 1745 to 1751 Elyria Ave. Cost, $10,000.

SALEM, OHIO.—The Colonial Ice Co. will build a new artificial ice manufacturing plant at its present distributing station, at Woodhill and Fairmount, at a cost of $85,000. The improvement will include also a main office building. Ground will be broken soon. The contract for the machinery has been awarded to the **GREAT LAKES ENGINEERING CO.**, of Detroit, Mich.

SPRINGFIELD, OHIO.—Plans are being prepared by H. G. Smith, Arch., for the construction of an addition to the plant of the Superior Gas Engine Co. and the contract has been awarded to **CLIFT WISE**, 315 Dearborn St., Chicago, Ill. The structure will be two stories high, 200 × 48 ft., of reinforced concrete and steel. P. J. Shouvlin is Pres.

BEDFORD, IND.—The Southern Equipment & Supply Co., recently incorporated, will establish and equip a plant to manufacture all kinds of equipment and supplies for electric power, heating, light, gas and water, quarries and other concerns using machinery. Horace C. Stillwell is Pres.

BRAZIL, IND.—The six bids submitted for the construction of a factory building for the Northwestern Can Co. have been rejected as being excessive. New bids will be asked for on new plans and specifications. Noted last week.

EVANSVILLE, IND.—The Evansville Marine Motor & Foundry Co. has been incorporated to build, equip and operate a plant for the manufacture of engines, boilers, machinery, parts, patterns and a general electric motor repair business. B. F. Durry is Pres.

GARY, IND.—We are officially advised that the contract to construct a plant here for the Gary Screw & Bolt Co., which is identified with the Pittsburg Screw & Bolt Co., Liberty Ave. and 25th St., Pittsburg, Pa., will be awarded within a few weeks. The estimated cost is $1,000,000. W. G. Costin is Pres. of the latter named company.

INDIANAPOLIS, IND.—The Warren Electric & Machine Co. has been incorporated to establish a plant to manufacture machinery of all kinds, parts of machinery and electrical supplies. Elmer R. Warren is Pres.

KOKOMO, IND.—The Haynes Automobile Mfg. Co. has ordered plans on which bids will be asked for the construction of a plant on the site of the factory recently destroyed by fire. Harry H. Elmer is Gen. Supt.

MITCHELL, IND.—The Matthew Flour Mill Co. will ask for bids for the rebuilding of its flour mill and elevator as soon as plans are completed.

RICHMOND, IND.—The Hayes Track Appliance Co., of Geneva, N. Y., will soon ask for bids for the erection of a brick and steel factory building on North Third St. in this city. The machinery of the company will be moved from the plant in Geneva, it is stated.

TERRE HAUTE, IND.—The Gento Mfg. Co. has plans ready for bidders for the erection of a 3-story brick and stone building near the old plant. New machinery will be installed therein.

Plans for the erection of three brick buildings for the Columbia Enameling & Stamping Co., to be erected on the site of the old steel structures owned by the company, are being prepared.

DETROIT, MICH.—Varney, Winter & Varney, Equity Bldg., have awarded the following contracts for the proposed 1 and 2-story factory addition, 92 × 145 ft., to the plant of the Chicago Pneumatic Tool Co., Ford Bldg.: Structural iron work, to the **RUSSELL WHEEL & FOUNDRY CO.**, Chene St. and Belt Line R. R.; composition roofing, to **R. HUTTON & CO.**, 116 Ford St. East; painting, to **BURLAND & MURRAY**, 902 Twelfth St. Cost, $30,000.

GRAND RAPIDS, MICH.—Robinson & Campau, Houseman Bldg., Grand Rapids, are preparing plans for a 3-story factory, 50 × 101 ft., for A. E. Brooks & Co., Ionia and Commerce Sts. The foundation and outer walls are to be heavy enough to carry an 8-story building. Cost, $25,000.

MENOMINEE, MICH.—Louis Trehle, Arch., 109 Randolph St., Chicago, Ill., is preparing plans for a 3-story stock-house for the Teisen Q Heinz Brewing Co. at Menominee. The architect will soon receive estimates. Cost, $35,000.

The Empire Portland Cement Co., of Portsmouth, Ohio, plans to establish a cement plant here, according to reports.

CAIRO, ILL.—The Pioneer Pole & Shaft Co., of Sidney, Ohio, plans to erect an extensive plant here. The structure will be built of brick and will be 130 × 300 ft., aside from the kilns and power plant.

FREEPORT, ILL.—It is stated that extensive improvements, the estimated cost of which is placed at between $20,000 and $25,000, will be started soon at the plant of the Stover Engine Co., in East Freeport. Two new buildings will be erected and the capacity of the foundry will be more than doubled. It is also planned to add materially to the machine shop.

KENOSHA, WIS.—The Racine Refrigerator & Fixture Co. has increased its capital to $750,000 for the purpose of erecting new buildings which will require tools and machinery for the manufacture of refrigerators, fixtures, ice-making machinery and cold storage warehouse specialties. Peter B. Nelson is Pres.

NORTH MILWAUKEE, WIS.—The Kreiter Piano Co. will build a factory at North Milwaukee this spring, to cost about $100,000. The building will be 120 ft. wide and 250 ft. long, three stories high and will be constructed entirely of concrete, making it a **completely fireproof** structure. The machinery for the plant will cost between $25,000 and $40,000. The company will employ about 250 men in its new plant, and will have a capacity of from 25 to 30 pianos a day.

RACINE, WIS.—The Racine Mfg. Co. has increased its capital stock from $600,000 to $800,000 for the purpose of erecting a new manufacturing building for the production of metal and wood automobile bodies, etc. This building will replace several destroyed by fire more than a year ago. Cost, $175,000.

SIOUX CITY, IOWA.—A new set of buildings for the Iowa Foundry Co., whereby it will be able to more than double its output are to be erected on a half block of ground which the company has leased, with the option of purchase, from A. R. Frisbie. The site for the factory lies on Second St., between Cook and Center, with the Milwaukee railroad tracks in the rear. It has three open streets surrounding it and trackage in the rear. On this ground will be erected a foundry and machine and pattern shops. The foundry will be 60 × 80 ft., of reinforced-concrete piers, 16 ft. high with a self-supporting steel constructed roof. G. E. Tiller is Pres.

DULUTH, MINN.—An addition, seven stories in height and providing the same floor area as the present building, will be built to the plant of the Northern Cold Storage & Warehouse Co. at the foot of Seventh Ave. West. The addition will be built on the north side of the present structure, fronting Railroad St. It will be built entirely of stone and concrete. Two fire walls will be built, so that the addition will consist of three entirely separated sections. The contract will be let soon and work will be rushed, so that the second addition will be ready for use early in August. It will be the second of three units originally planned for the plant.

KANSAS CITY, MO.—Plans are being prepared by Smith, Rae & Lovett, of Kansas City, for the erection of a plant for the Forrester-Nace Box Co., with an output of 60,000 boxes. It will be a reinforced concrete and brick structure. The contract has been awarded to **HARRY STEVENS**.

ARKADELPHIA, ARK.—Plans and specifications for the oil mill to be erected in this city by the United Oil Mill Co. have been

completed and placed on file. The building is to be of brick and concrete and will cost about $85,000. W. E. Abernathy, who was formerly the Manager of the Okolona Oil Mill, which was absorbed by this company, has been stationed here as the Manager and General Superintendent of the mill. He has already taken charge of the affairs here and the work of construction will begin immediately, it is stated.

NEWPORT, ARK.—According to reports, the Central States Cooperage Co., of Newcastle, Ind., contemplates establishing a stave mill on the Remmel Empire Mill site, with a daily capacity of 40,000 staves.

CLEBURNE, TEX.—The Gulf, Colorado & Santa Fe R. R. Co. is reported to be planning the enlargement of its shops here, at a cost of $60,000, recently appropriated. F. Merritt, of Galveston, is Ch. Engr.

SAN BENITO, TEX.—The San Benito Canning Co. plans to erect a 2-story brick cold-storage plant for wholesale meat and produce. It will be 100 × 200 ft. and will have a daily capacity of 20,000 cans of tomatoes. Cost, $9,000. O. S. Dinger is Mgr.

ELK CITY, IDAHO.—The Elk City Mining, Milling & Reduction Co. has been incorporated with a capital of $10,000, for the purpose of erecting a 5-stamp custom mill. The incorporators are: L. Horne, G. Basket, N. Pettibone and others.

SANDPOINT, IDAHO.—Arrangements have been made for the location in Sandpoint of a factory for the manufacture of non-rusting, non-breakable transplanting flower pots, the patent of which is held by William C. Hill, of this city. It is expected that construction will be started soon.

TEMPLE, ARIZ.—OLSEN & CO., of Bisbee and Phoenix, have been awarded the contract for the construction of a cold-storage plant for the Pacific Creamery Co., of Temple. It will be 40 × 40 ft., 20 ft. high, of reinforced-concrete construction.

The Temple Woolen Mills Co., it is announced, will soon start work on a $25,000 factory building of brick and concrete construction. F. L. Richmond and Ernest Stroud are the incorporators.

BREMERTON, WASH.—W. N. CONCANNON, Monadnock Bldg., San Francisco, Cal., has secured the contract at $143,825, for the construction of a general foundry building for the Naval Station at Bremerton. Bids were received on Jan. 28 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C. List of bidders noted Feb. 2.

TACOMA, WASH.—The Union Meat Co., of Portland, Ore., will build a branch house on the site at 19th and Commerce Sts. E. J. Shoobay is the Local Mgr. The building will be two stories high and will contain cold-storage and smoke rooms. Cost, $30,000.

SANDY, ORE.—Charles E. DuBois, of Estacada, it is stated, has purchased 3,000,000 ft. of fir lumber near here and will build a sawmill on the tract.

FRESNO, CAL.—The Danish Creamery Co. has awarded the contract to FRANK REHORN for the construction of a brick creamery plant here. Mr. E. C. Kirby, Jr., is the Arch. Cost, $15,300.

LOS ANGELES, CAL.—A factory building, to cost $15,000, will be erected at 923 Santa Fe Ave. by the Wood Brewing Association, on a lot 40 × 150 ft., which the association has just purchased from the Los Angeles-Tulare Land Co. Joseph Wood is Pres. and Walter S. McKee, Secy. of the Association.

OAKLAND, CAL.—POWELL BROS., Harrison Ave. and Pearl St., Alameda, have secured the contract for the construction of a 1-story factory building on Peterson St., Oakland, for the Gorham Engineering Co., Chestnut St., Alameda. Cost, $20,000.

SAN FRANCISCO, CAL.—The United Railroads Co. has awarded the contract to WILLIAMS BROS., for the construction of an addition to their Ellston shops at San Jose and Ocean Aves. Cost, $18,147.

J. G. Walker has awarded the contract to the WESTERN IRON WORKS & CONTINENTAL FIREPROOFING CO., for the cast-iron and steel work and terra cotta for a 2-story Class A building on Market St. Cost, $15,100.

STRATHMORE, CAL.—The contract to erect the plant of the Standard Oil Co. has been awarded to WHITE BROS. & LAIDLAW, of Porterville. The plant will include a warehouse, office building, two steel oil tanks, etc.

ESPANOLA, ONT.—A big paper mill will be erected at Espanola, Algoma District, at a cost of about $1,000,000 by the Spanish River Pulp & Paper Co., of which W. J. Shepard is Pres. Work will be started in the near future, and it is planned to have the mill in operation by about Oct. 1 next. The mill will have a capacity of 100 tons of paper daily, and the pulp will be supplied from the present pulp-making plant, which has a capacity of 125 tons daily. Bids are now being called for the buildings, and the machinery has been ordered. The whole paper plant will be under one roof and the building will be about 525 ft. long.

TORONTO, ONT.—Ernest Sinclair, a Director of the Perforated Music Co., of London, England, King Edward Hotel, Toronto, states that his company will build a factory in the near future that will eventually employ 250 hands.

WINDSOR, ONT.—The D. M. Ferry Co., of Windsor and Detroit, Mich., will rebuild their plant in Windsor that was destroyed by fire about a year ago. The new seed plant will be of reinforced-concrete construction and three stories high.

WINNIPEG, MAN.—Vickers, Sons & Maxim, of Sheffield, England, who have several large contracts in Western Canada, propose to erect a plant here. J. F. L. Thomas has opened an office in the firm's behalf, it is reported.

MEDICINE HAT, ALTA.—The Medicine Hat Milling Co. plans to increase its capital to $250,000, and erect another flour mill

NEW WESTMINSTER, B. C.—The Drop Forge Mfg. Co. has purchased a site here on which to erect a tool factory, costing over $100,000.

SPATSUM, B. C.—The Spatsum Gypsum Co. has been organized here and will at once erect a $200,000 gypsum plant.

VANCOUVER, B. C.—The Swift Packing Co., of Chicago, Ill., is having plans prepared for a packing plant to be erected here this year, at a cost of $1,000,000. The company also proposes to erect several other plants in Western Canada.

GUANAJUATO, MEX.—A mill will be installed at the Carmen Mine here by the French syndicate that owns the property. Ernesto Brunel is Mgr., with headquarters at this place.

OAXACA, MEX.—Dr. Howard A. Kelly, of Baltimore, Md., and J. E. McCreary, of this place, will erect a custom mill here.

SAN CAYETANO (State of Guanajuato), MEX.—The San Cayetano Mines Co. will install a mill at its mines here.

VERA CRUZ, MEX.—The City Council of Vera Cruz will install a cold storage plant in this city for the benefit of butchers and fishermen, it is stated.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

BOARDWALK—Brooklyn, N. Y.—Charles S. Voorhees, 177 Montague St., Brooklyn, has been engaged to prepare plans and specifications for the proposed board walk to be constructed for the Greater Coney Island Co. at Coney Island. Noted on Feb. 23.

CHANNEL EXCAVATION,—Buffalo, N. Y.—Bids will be received until 11 a. m., April 10, by Lt.-Col. J. G. Warren, Corps. Engrs., U. S. A., Buffalo, for channel excavation, Niagara Falls, N. Y.

ELIMINATION OF GRADE CROSSINGS, etc.—Cornwall, N. Y.—The cost of the elimination of grade crossings of the New York Central R. R. Co. and building a new station here, has been estimated at $200,000. G. W. Kittredge is Ch. Engr., New York.

CAISSONS—New York, N. Y.—The contract for furnishing a steel caisson for dry dock No. 4, Navy Yard, New York, has been awarded to the PENN BRIDGE CO., of Beaver Falls, Pa., at $112,900.

CEMENT—New York, N. Y.—Bids will be received by the Board of Health, Dept. of Health, until 10 a. m., March 14, for furnishing and delivering as required 1,000 bbls. of Portland cement to the Tuberculosis Sanatorium at Otisville, Orange County, N. Y., during the year 1911.

FIRE ESCAPES.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., March 15, for furnishing all the labor and materials required for the erection and entire completion of five spiral fire escapes, one each on pavilion F1 and pavilion F2 at the New York City Children's Hospital and Schools, Randalls Island, and one each on three dormitories at the New York City Farm Colony, Boro. Richmond. Michael J. Drummond is Comr.

METAL VAULT LININGS, ETC.—New York, N. Y.—Bids were received as follows on March 3, by James Knox Taylor, Superv. Archt., Treasury Dept., Washington, D. C., for the installation of metal vault linings, doors, etc., in the New York Assay Office, New York: Mosler Safe Co., Hamilton, Ohio, $17,997; York Safe & Lock Co., York, Pa., $22,726; Remington & Sherman Co., Philadelphia, Pa., $19,700.

EMBANKMENT.—Newport, N. J.—Bids will be received by the Newport Meadow Co., Newport, until 2 p. m., March 11, for the construction of an embankment by excavating a ditch, the embankment to be six miles long, 4-ft. top and 12-ft. base, and 3-ft. above high water mark. Nearest edge of base must be at least ten feet from the ditch. Price must be on basis of running rod. Roscoe C. Riley is Treas.

WHARF—Chester, Pa.—The City Council has awarded the contract, it is reported, to the JOHN J. WILLIAMS CO., of Chester, for the construction of a new wharf at the foot of Market St., and the erection of a bulkhead at the Edgemont Ave. pier, at about $40,000.

TELEPHONE SYSTEM—Middletown, Md.—The Middletown & Broad Run Telephone Co., organized by R. W. Stake, Mgr., Frederick, Md., branch of Chesapeake & Potomac Telephone Co., will establish a telephone system to connect with Chesapeake & Potomac lines.

BRASS, BRONZE, ETC.—Washington, D. C.—Bids will be received until March 14, by the Bureau Supplies and Accounts, Navy Dept., Washington, for furnishing at the navy yards and naval stations supplies as follows: Washington, D. C., Schedule 3371, 5,000 lbs. round brass, 175,000 lbs. manganese bronze ingots, 14,500 lbs. naval bronze, 308,480 lbs. steel castings, baskets and spindle for motor-driven hydrocentrifugals. Brooklyn, N. Y., Schedule 3372, 90 M. ft. yellow pine, 45 M. ft. white pine, 10 M. ft. poplar, 10 M. ft. white maple, 15 M. ft. white ash; 30 M. ft. North Carolina pine; Schedule 3374, 18,000 lbs. wrought bar iron; 2,100 lbs. cold rolled machinery steel, 63,600 lbs. medium bar steel, 3,500 lbs. range sheet steel, 8,000 lbs. sheet zinc; Schedule 3375, 44,800 lbs. ingot tin, 47,000 lbs. Class B. billet steel, 1,500 lbs. sheet brass; Schedule 3376, 950 terminals for single conductor, three voltmeters. Charleston, S. C., Schedule 3372, 32 M. ft. yellow pine; schedule 3374, 40,000 lbs. medium plate steel. Boston, Mass., Schedule 3372, 30 M. ft. white pine; Schedule 3375, 72,500 lbs. steel angles, 69,500 lbs. steel plates and shapes. Mare Island, Cal., Schedule 3353, 40,000 lbs. steel floor plates. Puget Sound, Wash., Schedule 3353, 1,200 lbs. cold rolled sheet brass. Applications for proposals should designate the schedules desired by numbers.

IRON FENCE—Washington, D. C.—Bids will be received until 11 a. m., March 21, by James H. Berry, Comr. for Marking Graves of Confederate Dead, War Dept., Washington, D. C., for furnishing and erecting about 834 lin. ft. of w. i. fence around Point Lookout Confederate Cemetery.

WIRE—Washington, D. C.—The following bids were received by the Chief Signal Officer, U. S. A., Washington, on Feb. 27, for furnishing 300 miles of 11-strand field wire: Safety Insulated Wire & Cable Co., 114 Liberty St., New York, $74.25 per mile; delivery five miles per week. Habishaw Wire Co., Yonkers, N. Y., $70 per miles; time 120 days. Atlantic Insulated Wire & Cable Co., 120 Liberty St., New York, $50.95 per miles; 60 miles per month. The Okonite Co., 413 Postal Bldg., New York, $73.93; 50 days. Hazard Mfg. Co., 50 Dey St., New York, $62.94; 20 miles in 60 days.

VALVE JACKS, ETC.—Wheeling, W. Va.—Bids will be received until 11 a. m., April 10, by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for furnishing and delivering river wall valve jacks, gate engines, gate winches, and air tanks for Dam No. 26, Ohio River.

REPAIRS TO WHARF. — Fort Caswell (Southport post-office), N. C.—Bids will be received until March 10, by Lieut. R. O. Edwards, Q.M., U. S. A., Fort Caswell, for repairing the wharf at Fort Caswell.

PIPE, ETC.—Atlanta, Ga.—Bids will be received until 10 a. m., April 7, by R. V. La Dow, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. penitentiary here, wrought steel or iron pipe, iron fittings, soil pipe and fittings, lead pipe, solder, etc. Specifications are on file at the office of Engineering News, New York.

STONE.—Vicksburg, Miss.—Bids will be received until noon, March 21, by Capt. Charles S. Smith, Corps Engrs., U. S. A., Vicksburg, for furnishing about 8,400 cu. yds. of light and heavy rip-rap stone for Osachita River, La. and Ark.

*CEMENT.—Vicksburg, Miss.—Bids will be received by Capt Charles S. Smith, Corps Engrs., U. S. A., Vicksburg, until noon, March 21, for furnishing 4,300 bbls. of cement delivered near Monroe, La.

*STEEL BARGES.—Memphis, Tenn.—Bids will be received until noon, April 5, by the Mississippi River Commission, First and Second Districts, at the office of Capt. Clarke S. Smith, Corps Engrs., U. S. A., Custom House, Memphis, for constructing and delivering seven steel barges.

STONE—Memphis, Tenn.—Bids will be received until noon, March 22, by the Mississippi River Commission, First and Second Districts, U. S. Engineer's office, Custom House, Memphis, for furnishing 40,000 cu. yds. of riprap stone, delivered in government barges and in contractor's barges.

BOATS—Cleveland Ohio.—The contract has been awarded to the AMERICAN SHIPBUILDING CO., of Cleveland, by the Booth Fisheries Co., of Chicago, Ill., for constructing four boats for the fish trade.

*LOCK AND DAM. — Cincinnati, Ohio.—Bids will be received until 2 p. m., March 21 by Maj. H. Jervey, Corps Engrs, U. S. A., Cincinnati, for constructing Lock and Dam No. 29, Ohio Diver, near Ashland, Ky.

LOCK AND DAM—Cincinnati, Ohio.—The contract for constructing lock and dam No. 29, Ohio River, near Ashland, Ky., has been awarded to the SHERIDAN-KIRK CONTRACT CO., of Cincinnati, at $644,842. Bids were opened on Feb. 20. List of bidders noted on March 2.

*LOCK-TENDERS' DWELLINGS—Cincinnati, Ohio.—Bids were received on Feb. 28, by Maj. H. Jervey, Corps Engrs., U. S. A., Cincinnati, for constructing four lock-tenders' dwellings at Dam No. 37, Ohio River, as follows: Charles Rosensteil & Son, Cincinnati, $23,448; D. Meinken, Cincinnati, $22,687; Ohio Building & Construction Co., Cincinnati, $26,619; Henry Fischer, Cincinnati, $26,372; West End Carpenter Shop, Cincinnati, $24,019; M. Marcus Building Co., Cincinnati, $26,012; McMiller & Taft, Cincinnati, $24,990; John R. Steel, North Bend, Ohio, and Harry W. Balsley, Cleves, Ohio, $25,903; William Miller & Son, Cincinnati, $24,600; Charles D. Keyser, Bellaire, Ohio, $23,000; Fred H. Drucker, Sayler Park, Ohio, $23,900, and $13,866 (this bid is based on the United States furnishing certain items).

RETAINING WALL.—Mount Vernon, Ohio.—Bids will be received by Charles M. Fairchild, Dir. Pub. Ser., until noon, March 25, for furnishing the material and labor necessary for constructing a concrete retaining wall along the west side of Mound View Cemetery.

DITCH.—Martinsville, Ind.—Bids were received on Feb. 27 by Henry A. Blunk, Comr. of Construction, at the office of the County Surveyor, for the construction of the F. C. Cook ditch. The contract has been awarded to FRED C. MORGAN at $15,000.

DRAIN.—Plymouth, Ind.—Percy J. Troyer, Surv., is surveying a ditch in Marshall County, and will let contracts for the construction of 1½ miles of drain as follows: 500 ft. of 6-in.; 500 ft. of 8-in.; 2,500 ft. of 10-in.; 2,000 ft. of 12-in., and 1,000 ft. of 14-in. tile.

DITCH.—Portland, Ind.—The contract for the construction of the Beeson and Elwood Ditch, in Jefferson Township, has been awarded to PHARON DULL, at $14,950.

MONUMENT.—South Bend, Ind.—A contract for the erection of a granite monument here has been awarded to CLARENCE EDWARDS, of South Bend.

CAR FERRY.—Detroit, Mich.—Frank E. Kirby, Magnolia near 14th Ave., Detroit, will soon have plans completed for a new steel car ferry 352 ft. long, 60 ft. wide, with 5,000 HP. The steamer will cost about $475,000 and will be used in the Straights of Mackinac by the Mackinac Transportation Co.

*SLUICE GATES. — De[illegible] Mich. — Bids will be received until 3 [illegible] April 10 by Col. C. McD. Townsen[illegible]orps Engrs., U. S. A., Detroit, for [illegible]nstruction of sluice gates for St. Mary's [illegible] Canal.

DREDGING.—Grand Ra[illegible] Mich.—Bids will be received until 3 p[illegible] March 30, by Maj. C. S. Riche, Corps [illegible], U. S. A., for dredging at South H[illegible] Saugatuck, Muskegon and Manistee Ha[illegible] Mich.

ORE DOCK FOUNDA[illegible]—Marquette, Mich.—The Lake Superior & [illegible]ming Ry. Co. has awarded to the RAYM[illegible] CONCRETE PILE CO., 90 West St., Ne[illegible]k, the contract for the foundation a[illegible]ncrete work of the new ore dock the co[illegible]y will build here. The WISCONSIN B[illegible]E & IRON CO. will do the steel work a[illegible]he ZENITH CITY CO., of Duluth, Minn.,[illegible]ging. Noted on Jan. 26.

*TILE.—Cerro Gordo, Ill.—T[illegible]ommissioners of Union Drainage Distr[illegible]o. 5, Cerro Gordo Township, Piatt Co[illegible] Ill., will receive bids through H. C[illegible]llips, Clk., Cerro Gordo, until 2 p. m.[illegible]h 18, for the following material and la[illegible] 3,100 ft. of 18-in. tile; 2,100 ft. of [illegible] tile; 3,900 ft. 15-in. tile; 4,400 ft.[illegible]-in. tile; all the aforesaid tile to be [illegible]rade vitrified drain tile; also 4,100 f[illegible]8-in. red shale drain tile; also the hau[illegible]he aforesaid tile; trenching and lay[illegible] the said tile and backfilling the tre[illegible]ccording to the plans and profiles on[illegible] with the clerk, or at the office of W. J[illegible]y. Engr., Bement, Ill.; also furnishing [illegible]materials and building one concrete re[illegible]ng wall. The bids will be considered se[illegible]ately.

DITCH.—McLeansboro, Ill.—B[illegible] will be received until March 16 by the [illegible]mission-ers of North Fork Drainage Dist[illegible] of Hamilton County for construction of [illegible] miles of drainage ditch and laterals in [illegible]southern part of the county.

EMBANKMENT, ETC.—Murphy[illegible]ro, Ill.—The contract has been awarded b[illegible]he Commissioners of Degognia and Foun[illegible]in Bluff Levee and Drainage District for c[illegible]structing 550,000 cu. yds. earth embankment, four concrete and steel locks, two concrete steel culverts, 33 steel pipe drains with concrete head walls and all steel doors and 270 cu. yds. of reinforced-concrete walls, raising and strengthening a reinforced-concrete lock with steel doors, to CARY BROS., of Memphis, at 14 cts. per cu. yd. for earth fill, $10 per cu. yd. for concrete wall and wet concrete culvert work, etc. Total of contract, $1[illegible]7,451.

LEVEE.—East St. Louis, Ill.—The Board of Trustees of the East Side Levee and Sanitary District on Feb. 23 adopted plans and specifications for the construction of the front levee. Estimated cost, $80,000. Bids will be asked soon. R. W. Sikking is Clk., East St. Louis.

DRAIN TILE.—Taylorville, Ill.—Bids will be received until March 11 by the Commissioners of Glover Special Drainage District of the towns of Greenwood and Ricks, Christian County and the town of Rountree, Montgomery County, at the office of H. J. Burke, County Clk., at Taylorville, for furnishing, delivering, trenching and laying drain tile. J. W. Dappert is Engr., Taylorville.

COAL DOCK.—Ashland, Wis.—The Clarkson Coal & Dock Co., of Ashland, will spend about $25,000 for improvements to its property here. The dock capacity will be increased one-third and the docks extended to the harbor line.

*BREAKWATER, ETC.—Milwaukee, Wis.—Bids were received on March 1 by Maj. Charles S. Bromwell, Corps Engrs., U. S. A., for building a crib breakwater, crib and pile pier, and concrete superstructure at Manistique Harbor, Mich., as follows: Muskegon Construction & Engineering Co. and Columbian Construction Co., Muskegon, Mich., $71,641; Hugo & Tims Co., Duluth, Minn., $89,946; Robert Love & Co., Muskegon, $94,445; Greiling Bros. Co., Green Bay, Wis., $78,541; Burk, Smith & Nelson, Muskegon, $84,283; Great Lakes Dredge & Dock Co., Chicago, Ill., $84,173.

TURNING BASIN.—Milwaukee, Wis.—The Common Council, it is reported, has accepted the conditions imposed by the War Department for the construction of the Kinnickinnic River turning basin and will now receive the $250,000 appropriation made by Congress four years ago. Maj. Charles S. Bromwell, Corps Engrs., U. S. A., Milwaukee, is Dist. Engr.

LEVEE.—Van Buren, Ark.—The Commissioners of Crawford County Levee District, E. L. Matlock, Secy., Van Buren, have awarded the contract to FRANK GOULD, of Pine Bluff, Ark., for constructing the county levee from Van Buren to Frog Bayou. Noted on March 2.

*DREDGING.—Galveston, Tex.—Bids will be received until March 31 by Maj. G. P. Howell, Corps Engrs., U. S. A., Galveston, for dredging Galveston Harbor.

*CEMENT.—Denver, Colo.—See item under Water Supply-Irrigation.

REPAIRS TO STEAMER.—Portland, Ore.—The ELLIOTT BAY DRYDOCK CO. has been awarded the contract for repairs to the steamer "Kitsap" at $12,000.

BREAKWATER.—Coronado, Cal.—The City Engineer is preparing plans for a breakwater to be constructed along the ocean front for a distance of 2,300 ft. It will be composed of a series of rip-rap rock fills, about 100 ft. from the sea wall.

REPAIRING WHARF.—Fort McDowell (Angel Island post-office) Cal.—Bids will be received until 11 a. m., March [illegible] by Capt. Leon R. Kromer, Constr. Q.M., U. S. A., for repairing wharf at West Garrison.

DREDGING.—Los Angeles, Cal.—Homer Hamlin, City Engr., has prepared plans for dredging in Wilmington Harbor. Bids will be asked soon.

WHARF.—San Pedro, Cal.—The National Lumber Co., 2010 South Alameda St., Los Angeles, Cal., has been granted a permit for the erection of a wharf at East San Pedro to cost $25,000.

SCENIC RAILWAY.—Venice, Cal.—PAUL D. HOUSE, 157 Dearborn St., Chicago, Ill., has been awarded the contract for building a scenic railway here. Cost, $80,000.

BREAKWATER.—Ottawa, Ont.—Bids will be received until March 21 by the Department of Public Works, Ottawa, for the construction of a breakwater at Breen's Pond, Antigonish County, N. S. R. C. Desrochers is Secy., Ottawa.

TIMBER, ETC.—Ottawa, Ont.—Bids will be received until 4 p. m., March 20, by L. K. Jones, Secy. Dept. Railways and Canals, Ottawa, for the supply and delivery of British Columbia or "Douglas Fir" dimension timber and also for other lumber and timber required for use on the Rideau Canal for the year 1911-1912.

TELEPHONE SUPPLIES.—Winnipeg, Man. —The Manitoba Telephone Commission has awarded the following contracts totalling over $1,000,000, for supplies for the year's construction: Poles, to J. L. HYLAND & CO., Winnipeg; hardware, MILLER, MORSE HARDWARE CO., Ltd., Winnipeg.; J. H. ASHDOWN CO., Winnipeg; insulators, PITTSBURG HIGH VOLTAGE CO. and AUGUST FINGER; copper wire, WIRE & CABLE CO. and EUGENE F. PHILLIPS ELECTRIC WORKS CO.; iron wire, STEEL CO. OF CANADA and NORTHERN ELECTRIC CO.; cable, WIRE & CABLE CO.; cross arms, side blocks, top pins, etc., NORTHERN ELECTRIC CO., TRI-PROVINCIAL ELECTRIC SUPPLY CO., WEST CANADIAN LUMBER CO., BROWN & RUTHERFORD, Winnipeg; underground conduits, TRI-PROVINCIAL ELECTRIC SUPPLY CO.

TELEPHONE LINE, ETC.—Moose Jaw, Sask.—Bids will be received until noon, March 15, by George W. Ross, Secy.-Treas., West Pioneer Telephone Co., P. O. Box 756, Moose Jaw, for the construction of nine miles of rural telephone line and installing the system complete.

SECTION HOUSES, ROUND-HOUSES, ETC.—Calgary, Alta.—Bids will be received until March 22 by the Divisional Engineer of the Canadian Pacific R. R. at Calgary, for the following: 26 section houses, five stations and freight sheds, three stations and two bunkhouses, and two 6-stall roundhouses, all situated in Alberta and Saskatchewan.

OIL STORAGE TANKS.—Vancouver, B. C. —The Great Northern Ry. has decided to erect large tanks here for oil storage purposes. S. B. Piechner is Pur. Agt., St. Paul, Minn.

DRY DOCK.—Esquimalt, B. C.—The British Columbia Marine Ry. Co. will build a dry dock, it is reported, at Langs Cove, Esquimalt. Estimated cost, $3,000,000.

CONCENTRATING, ETC., PLANT.—Avino (Durango), Mex.—Carlos von Brandis, of Durango, will erect a concentrating and cyaniding plant here. The Lucia Mining Co., of Avino, is also interested in the proposed plant.

MILL.—Taxco (Guerrero), Mex.—The Taxco Mines of Mexico, Ltd., will erect a 100-ton mill at its mines here.

REDUCTION PLANT.—Guanajuato, Mex.—The Mexico Mines Co., will erect a large and modern reduction plant at its mines in the Guanajuato District. Dr. J. L. Hill is Pres.; W. H. Ehlert is Managing Dir.

U. S. POSSESSIONS.

LOCK GATE, RECESS COVERS.—Panama. —Bids were received by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., on Feb. 27, for lock gate recess covers, including structural material, castings, etc., as follows: 80 lock-gate recess covers (40 right-handed and 40 left-handed), additional cover parts to be furnished at the following unit prices: (a) castings, (b) structural and all other maintenance: Des Moines Bridge & Iron Works, Pittsburg, $222,880, (a) 5.04 cts., (b) 4.81 cts., 150 to 270 days; Detroit Steel & Bridge Works, River Rouge, Mich., $251,600; (a) 6 cts., (b) 5.5 cts., 180 to 240 days; Independence Bridge Co., Pittsburg, $211,040; (a) 4⅝ cts., (b) 4¾ cts., 150 to 185 days; McClintic-Marshall Construction Co., Pittsburg, $194,360; (a) 5.17 cts., (b) 3.36 cts., 160 to 190 days; United States Steel Products Co., New York, $129,360; (a) 3.65 cts., (b) 3.33 cts., 155 to 185 days; Penn Bridge Co., Beaver Falls, Pa., $128,988; (a) 3.6 cts., (b) 3.4 cts., 150 to 270 days.

CONTRACT PRICES.

*(*Denotes that this work is advertised in Engineering News.)*

OGDEN, UTAH.—Bids were received from the following for the construction of the cold water canyon conduit to be constructed in Ogden City: (A) J. P. O'Neil; (B) Lynch Cannon Eng. Co.; (C) Moran Construction Co.; (D) P. J. Moran; (E) Wheelwright Construction Co.; (F) Gillis Construction Co.; (G) McKay & Reed; (H) Strang & Maguire; (I) Engineer's estimate. The itemized bids were:

	A	B	C	D	E	F	G	H	I
12,085.90 cu. yds. excavation and backfilling, common	$0.56	$0.47	$0.27	$0.60	$0.62½	$1.00	$0.69	$0.80	$0.60
5,796.60 cu. yds. do. loose rock	.75	.82	1.36	.90	.98	1.00	1.50	1.00	1.25
2,783.70 cu. yds. do. solid rock	1.35	2.15	1.81	2.65	2.64	3.00	3.00	3.85	2.10
360 cu. yds. excavation in tunnels, solid rock	5.40	13.00	12.11	8.00	6.42	6.00	9.00	10.00	10.00
50 cu. yds. masonry in walls, laid dry	1.08	7.00	3.50	4.50	3.00	3.00	2.05	5.00	4.00
30.60 cu. yds. masonry in walls, laid in mortar	3.24	20.00	5.50	6.00	5.50	4.00	10.70	6.00	6.00
10 cu. yds. riprap in place, laid dry	1.08	2.00	2.00	2.50	3.00	3.00	2.00	2.50	3.00
10 cu. yds. riprap in place, laid in mortar	2.16	3.00	3.50	3.35	5.00	4.00	7.00	4.50	5.00
5 cu. yds. plain concrete in place, Class A	8.64	10.00	9.20	12.50	18.00	10.00	12.00	22.00	9.00
25.12 cu. yds. plain concrete in place, Class B	8.10	9.00	8.07	11.50	15.00	10.00	11.25	19.00	8.50
80.85 cu. yds. plain concrete in place, Class C	7.56	6.80	7.20	10.00	12.00	10.00	11.00	17.00	7.50
5 cu. yds. reinforced concrete in place, Class A	14.04	15.00	10.80	15.50	20.00	12.00	16.00	25.00	12.00
132.55 cu. yds. reinforced concrete in place, Class B	12.96	14.25	9.67	13.00	17.00	12.00	15.00	22.00	14.00
5 cu. yds. reinforced concrete in place, Class C	12.96	12.00	9.40	12.00	15.00	12.00	14.00	20.00	10.00
5 cu. yds. cement mortar in place, Class K	11.34	12.00	9.00	15.00	25.00	25.00	11.65	25.00	16.00
358.90 sq. yds. cement mortar in place, Class J	.27	.42	.40	.50	.90	.50	.50	.50	.60
100 lin. ft. furnishing and laying continuous wood stave pipe, 24-in. diameter	1.67	1.61	1.77	2.00	1.75	1.75	1.50	1.90	1.90
4,642 lin. ft. do., 36-in. diameter	2.38	2.00	2.35	2.54	2.90	2.40	2.50	2.53	2.50
1,063 lin. ft. wire-wound pipe, wooden stave, 20-in. diameter	1.45	1.40	2.04	1.36	1.70	1.50	1.43	1.65	1.75
100 lin. ft. do., 24-in. diameter	1.44	1.50	1.77½	1.46	1.75	1.75	1.50	1.85	2.00
25 lin. ft. Kalamein pipe, 16-in. diameter	2.16	2.24	2.55	2.75	3.25	2.50	2.34	2.76	3.00
100 lin. ft. Kalamein pipe, 20-in. diameter	3.32	3.02	3.40	3.67	3.76	3.00	3.21	3.52	3.50
6,828 lin. ft. Kalamein pipe, 24-in. diameter	4.56	4.27¼	4.84½	4.80	4.63	4.50	4.79	4.72	4.40
50 lin. ft. cement pipe, 6-in. diameter	.38	.21	.32	.38	.30	.50	.27	.35	.25
50 lin. ft. cement pipe, 8-in. diameter	.60	.30	.44	.50	.45	.50	.34	.55	.35
50 lin. ft. cement pipe, 12-in. diameter	.84	.57	.67	.86	.90	.75	.74	.70	.55
50 lin. ft. cement pipe, 20-in. diameter	1.94	1.26	1.43	2.16	2.00	1.00	1.63	1.60	1.30
50 lin. ft. cement pipe, 24-in. diameter	2.32	1.75	2.00	2.81	2.70	1.00	2.03	2.20	1.75
50 lin. ft. vitrified pipe, 6-in. diameter	.20	.22	.25	.17	.30	.50	.27	.35	.25
50 lin. ft. vitrified pipe, 8-in. diameter	.30	.31	.35	.38	.45	.50	.34	.45	.35
50 lin. ft. vitrified pipe, 12-in. diameter	.50	.58	.62	.64	.90	.75	.74	.65	.55
50 lin. ft. vitrified pipe, 20-in. diameter	1.45	1.30	1.35	1.62	2.00	1.00	1.63	1.45	1.30
50 lin. ft. vitrified pipe, 24-in. diameter	2.00	1.80	1.85	2.07	2.70	1.00	2.03	2.00	1.75
1 Furnishing and setting gate valves; 16-in. without by-pass	114.48	125.25	150.00	135.10	130.30	125.00	116.00	110.00	200.00
1 do., 20-in. without by-pass	181.44	196.10	252.00	194.90	177.75	175.00	187.25	175.00	250.00
2 do., 24-in. without by-pass	277.02	295.75	308.00	295.00	257.0	275.00	284.50	270.00	325.00
1 do., 24-in. with 4-in. by-pass	297.00	330.00	350.00	344.40	284.00	300.00	302.50	290.00	355.00
1 sluice valve, 16-in. with floor stand	108.00	81.70	102.00	88.00	100.00	125.00	106.50	110.00	160.00
3 air valves, 3-in. with 3-in. valve	47.52	43.80	52.00	52.00	40.00	40.00	43.73	45.00	45.00
2 back pressure valves, 6-in. with sand trap	27.00	40.00	25.00	69.00	26.00	25.00	28.25	27.00	35.00
1 sluice gate, 24-in. with floor stand	129.60	161.00	150.00	128.80	134.00	75.00	128.50	140.00	150.00
8,410 lbs. special castings	.09	.08	.12	.06	.07½	.08	.08	.08	.09
2,000 lbs. structural steel	.05	.056	.20	.10	.07	.08	.13	.07	.15
10 24-in. manhole covers and frames	10.00	11.00	8.00	12.50	10.00	15.00	10.10	12.00	14.00
Carpenter work, complete, at reservoir gate-house	54.00	110.00	450.00	140.00	130.00	500.00	75.00	150.00	100.00
Carpenter work, complete, at intake dam and gate-house	54.00	90.00	200.00	162.00	130.00	500.00	75.00	150.00	100.00
Totals	$67,463	$68,989	$74,994	$76,747	$78,575	$79,914	$82,547	$82,279	$74,964

STREET IMPROVEMENT. — Westfield, Mass.—Bids were received on Feb. 17 by Oren E. Parks, Town Engr., for repaving Elm St. with granite block pavement, from: (A) DANIEL O'CONNELL'S SONS, Holyoke, Mass. (awarded contract); (B) James B. O'Rourke & Co., Boston, Mass.; (C) M. A. Cavanaugh, Boston, Mass.; (D) A. J. Langefield, Hartford, Conn.; (E) E. B. Roberts, Boston, Mass.; (F) Field, Barker & Underwood, Inc., Philadelphia, Pa.; (G) F. T. Ley & Co., Springfield, Mass.; (H) William J. Barry, Boston, Mass.; (I) Hassam Paving Co., Worcester, Mass.; (J) Edward Humphreyville, Westfield; (K) C. W. Dolloff & Co., Boston, Mass. The item bids were as follows:

STREET IMPROVEMENT, WESTFIELD, MASS.

	A	B	C	D	E	F	G	H	I	J	K
11,912 sq. yds. earth excavation and fill, outside St. Ry. area	$0.17	$0.20	$0.26	$0.08	$0.30	$0.15	$0.28	$0.30	$0.20	$0.21½	$0.56
3,620 sq. yds. earth excavation and fill, within St. Ry. area	.17	.20	.37	.09	.33	.21	.30	.30	.20	.26½	.65
900 lin. ft. straight curbing	.90	.90	.93½	.99	1.07	1.33	1.00	1.50	.80	1.22	.95
300 lin. ft. circular curbing	1.40	1.30	1.32	1.32	1.57	2.15	1.65	1.75	1.13	1.92	1.25
3,500 lin. ft. resetting curbing	.23	.12	.16½	.21	.30	.47	.30	.15	.10	.37	.22
340 lin. ft. bulkhead stone, outside St. Ry. area	.95	1.40	1.10	.72	1.50	1.61	1.30	1.50	1.00	1.47	1.80
9,239 sq. yds. pavement—recut blocks, inside St. Ry. area	1.60	1.70	1.67	1.76	2.34	1.84	1.75	1.80	2.29	1.96	2.38
2,108 sq. yds. pavement—recut blocks	1.80	1.70	1.88	1.86	2.58	1.90	1.95	1.85	2.29	2.18	2.43
2,673 sq. yds. pavement—new blocks, outside St. Ry. area	2.87	3.11	2.67	3.29	1.00	2.97	3.07	3.40	3.14	3.60	2.80
1,512 sq. yds. pavement—new blocks, inside St. Ry. area	3.10	3.11	2.89	3.39	1.10	3.02	3.25	3.75	3.14	3.91	2.85
Totals	$35,934	$37,508	$37,524	$37,647	$39,156	$40,001	$40,707	$42,858	$43,981	$45,228	$50,541

SANITARY SEWERS.—Sigourney, Iowa.—Bids have been received by the City Clerk for constructing sanitary sewers from: (A) W. J. Lana, Harlan, Iowa; (B) John W. Scott, Ottumwa, Iowa; (C) Zitteral & Sullivan, Webster City, Iowa; (D) Henry Rees, Quincy, Ill.; (E) J. W. Turner Imp. Co., Des Moines, Iowa; (F) Blackhawk Construction Co., Waterloo, Iowa; (G) M. A. Comery, Harlan, Iowa; (H) Hamilton Bros., Chicago, Ill.; (I) Omaha Construction Co., Omaha, Neb.; (J) BASH & GREY, Joplin, Mo. (awarded contract); (K) Dearborn & Jackson, Cedar Rapids, Iowa; (L) McGuire & Stanton, Leavenworth, Kan.; (M) C. R. McKay, Omaha, Neb.; (N) Geo. M. King, Des Moines, Iowa; (O) Burlington Construction Co., Burlington, Iowa. Hall & Adams, Engrs., Centerville, Iowa, estimated the cost of the work at $44,539. The item prices of the bids received were:

SANITARY SEWER SYSTEM, SIGOURNEY, IOWA.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36,645 lin. ft. 8-in. pipe	$0.65	$0.67	$0.585	$0.5725	$0.55	$0.675	$0.60	$0.54	$0.70	$0.48	$0.59	$0.50	$0.75	$0.62	$0.584
5,351 lin. ft. 10-in. pipe	.65	.73	.725	.61	.63	.80	.80	.59	.89	.52	.70	.60	.92	.65	.75
342 lin. ft. 12-in. pipe	1.00	.80	.735	.68	.69	.57	.90	.75	.75	.60	.70	.70	.75	.65	.76
100 lin. ft. 10-in. pipe, less than 4 ft. deep	.65	.58	.29	.38	.27	.32	.60	.45	.45	.49	.40	.35	.44	.35	.25
407 lin. ft. 10-in. pipe, 4 to 6 ft. deep	.65	.63	.31	.41	.42	.37	.60	.50	.49	.49	.47	.40	.52	.40	.298
247 lin. ft. 10-in. pipe, 6 to 8 ft. deep	.65	.67	.38	.45	.48	.48	.65	.60	.54	.49	.50	.45	.55	.45	.37
153 lin. ft. 10-in. pipe, 8 to 10 ft. deep	.65	.67	.55	.57	.63	.63	.70	.70	.65	.59	.50	.55	.64	.52	.46
216 lin. ft. 10-in. pipe, 10 to 12 ft. deep	.65	.72	.725	.65	.85	.85	.75	.85	.70	.59	.70	.65	.69	.62	.634
146 lin. ft. 10-in. pipe, 12 to 14 ft. deep	.65	.77	.91	.68	.90	1.20	.90	1.10	.85	.69	.85	.80	.68	.70	.706
50 lin. ft. 10-in. pipe, 14 to 16 ft. deep	1.00	.85	1.24	.75	1.17	1.46	1.30	1.25	1.00	.69	1.50	1.00	1.20	.80	.873
44 lin. ft 12-in. pipe, less than 4 ft. deep	.65	.70	.345	.45	.31	.37	.65	.55	.49	.56	.45	.40	.50	.39	.30
100 lin. ft. 12-in. pipe, 4 to 6 ft. deep	.65	.75	.37	.49	.46	.42	.75	.60	.55	.56	.53	.40	.60	.45	.36
883 lin. ft. 12-in. pipe, 6 to 8 ft. deep	.65	.80	.45	.60	.52	.53	.90	.70	.60	.66	.56	.50	.62	.50	.446
474 lin. ft. 12-in. pipe, 8 to 10 ft. deep	65	.80	.63	.72	.67	.68	1.00	.85	.70	.66	.65	.60	.69	.56	.552
229 lin. ft. 12-in. pipe, 10 to 12 ft. deep	.65	.85	.94	.75	.79	.90	1.10	1.00	.80	.66	.70	.70	.80	.65	.624
120 lin. ft. 12-in. pipe, 12 to 14 ft. deep	.65	.90	1.24	.76	.94	1.25	1.50	1.25	.90	.76	1.00	.90	.89	.75	.756
367 lin. ft. 15-in. pipe, less than 4 ft. deep	.65	.92	.48	.58	.41	.44	.75	.70	.69	.53	.60	.60	.70	.52	.432
853 lin. ft. 15-in. pipe, 4 to 6 ft. deep	.65	.95	.51	.63	.56	.48	.90	.75	.75	.63	.67	.65	.75	.59	.492
905 lin. ft. 15-in. pipe, 6 to 8 ft. deep	.65	1.00	.63	.70	.62	.60	1.00	.85	.80	.78	.70	.70	.82	.70	.588
618 lin. ft. 15-in. pipe, 8 to 10 ft. deep	.65	1.00	.83	.80	.72	.74	1.10	1.00	.90	.95	.80	.80	.95	.80	.71
544 lin. ft. 15-in. pipe, 10 to 12 ft. deep	1.00	1.05	1.14	.80	.89	.97	1.30	1.25	1.10	.95	.87	1.00	1.05	.93	.78
483 lin. ft. 15-in. pipe, 12 to 14 ft. deep	1.00	1.05	1.47	.90	1.08	1.32	1.40	1.40	1.20	.95	1.15	1.20	1.21	1.05	.936
130 lin. ft. 15-in. pipe, 14 to 16 ft. deep	1.00	1.10	1.91	1.00	1.35	1.58	1.50	1.60	1.35	1.25	1.60	1.40	1.36	1.25	1.13
24 lin. ft. 10-in. c.-i. pipe	2.50	1.00	1.20	1.00	2.50	1.69	2.00	2.00	6.00	1.75	2.00	2.50	6.00	2.00	2.02
42 brick piers	5.00	15.00	17.25	50.00	20.00	20.00	25.00	36.00	25.00	10.00	12.00	25.00	20.00	5.00	8.17
41 flushtanks	100.00	100.00	74.75	60.00	70.00	60.00	95.00	75.00	75.00	60.00	70.00	65.00	72.00	70.00	97.36
8 lampholes	5.00	15.00	5.75	8.00	10.00	3.50	12.50	5.00	10.00	4.00	10.00	10.00	12.00	5.00	6.96
104 regular manholes	40.00	48.00	38.00	35.00	38.00	45.00	40.00	35.00	38.00	33.00	32.00	40.00	42.00	39.00	46.90
7 drop manholes	40.00	60.00	47.45	50.00	45.00	50.00	60.00	45.00	60.00	35.00	40.00	50.00	55.00	44.00	59.12
1 septic tank, West Plant	......	2,250.00	2,109.00	3,250.00	2,350.00	1,916.00	......	3,000.00	......	2,400.00	2,500.00	2,600.00	......	......	2,442.60
1 septic tank, East Plant	......	2,250.00	2,227.00	3,250.00	2,350.00	1,916.00	......	3,000.00	......	2,500.00	2,500.00	2,685.00	......	......	2,333.40
1 septic tank, South Plant	......	300.00	268.00	800.00	400.00	283.00	......	500.00	......	300.00	400.00	360.00	......	......	514.35
1 set of filters, West Plant	......	3,000.00	2,462.00	1,000.00	2,300.00	2,487.00	......	2,777.00	......	1,200.00	3,500.00	1,900.00	......	......	2,462.60
1 set of filters, East Plant	......	3,000.00	2,407.00	2,000.00	2,300.00	2,487.00	......	2,777.00	......	1,200.00	3,500.00	2,000.00	......	......	2,498.40
1 filter, South Plant	......	350.00	225.00	250.00	400.00	349.00	......	500.00	......	200.00	500.00	445.00	......	......	314.82
Totals	$41,326	$55,877	$47,819	$46,474	$45,862	$51,246	$42,231	$49,219	$43,977	$39,741	$50,253	$44,112	$46,279	$38,447	$49,776

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ——. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

BRIDGE.—Russia.—The Municipal Council of St. Petersburg, it is reported, has voted an additional credit of $211,150 for the construction of the Palace Bridge.

WATER MAIN.—Italy.—Bids will be received until March 11, addressed to Al Signor Prefetto Civile per la Basilicata, Potenza, for laying a water main in the communal district of Picerno.

IRON TRUCKS, SAFES, ETC.—Egypt.—Bids will be received until 11 a. m., April 15, by the Chief of the Administrative Service, Public Works Ministry, Cairo, for iron trucks, safes, strong rooms, expanded metal fittings and wooden fittings for the new Parcel post-office at Cairo.

GENERATORS, ETC.—Australia.—Bids will be received at the office of the Deputy Postmaster-General, Adelaide, until noon, April 19, for five motor generators and one switchboard. For further information address The High Commissioner of the Commonwealth of Australia, 72 Victoria St., S. W., London, England.

EXAMINATIONS.

RESIDENT ENGINEER.—Albany, N. Y.—Examinations will be held in various parts of the State, April 1, for a Resident Engineer, Department of State Engineer and Surveyor. Salary, $2,400 to $3,000 a year. Application must be filed on or before March 25. For further information, address State Civil Service Commission, Albany, N. Y.

SUPERINTENDENT WATER SUPPLY.—White Plains, N. Y.—Examinations will be held, April 1, for the Superintendent Water Supply, White Plains Village service. Salary $1,800 a year. Application blanks must be filed on or before March 25. For detailed circular and application blank, address State Civil Service Commission, Albany, N. Y.

JUNIOR CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 5-6 to secure eligibles from which to make certification to fill a vacancy in the position of Junior Chemist, at $75 a month, in the Bureau of Mines, Pittsburg, Pa., and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Elementary mineralogy and geology, 5 points; translation from French or German technical works, 10 points; general chemistry and physics, including calculations, 20 points; essay, 15 points; chemistry of mineral substances, 25 points; training and experience, 25 points. Applicants must have reached their 21st but not their 30th birthday. Examination form 1312.

ENGINEER-PHYSICIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 31 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Engineer-Physicist, at $3,000 a year, or Associate Engineer-Physicist at $2,040 to $3,000 in the Bureau of Standards, at Washington, D. C., or the branch laboratory at Pittsburg, Pa. It is desired to secure persons who are fully able to initiate and carry on independent research in the field of engineering physics. They should have training and experience in the investigation and testing of engineering and structural materials, operation of testing machines, and the correlation of the results of investigations. There will be no educational examination for these positions, but it is essential that applicants should have made and published some contributions of recognized merit to engineering knowledge. Applicants should submit the titles of all papers that they have published and give references to the original source of publication. Applicants must have reached their 25th birthday. Examination form 1312.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
3-10	Water and sewer work, Fort Andrews, Mass. (P. & S.)	2-16
3-14*	Pontons, Rock Island, Ill. (P.&S.)	2-16
3-15*	Tunnel, Bonanza, Colo. (S.)	2- 9
3-16	Storehouse, Fort Strong, Mass. (P. & S.)	2-16
3-18	Quay wall extension, Portsmouth, N. H. (S.)	2-23
3-24*	Pipe, etc., Lewistown, Mont. (S.)	3- 2
3-25	Dredging, Boston, Mass. (S.)	2-23
3-25	Circulating loop, Vallejo, Cal. (S)	3- 9
3-25	Dredging, etc., Newport, R. I. (S.)	3- 2
4- 1	Power plant extensions, Portsmouth, N. H. (S.)	3- 9
4- 7	Pipe, etc., Atlanta, Ga. (S.)	3- 9

Light, Heat and Power Plants.

Bids close.		Noted in issue of
3- 6	Heating and vent., New York	2-23
3- 6	Steam boilers, New York	2-23
3- 6	Heating & ventilating, Howard, R. I.	3- 2
3-10	Lighting fixtures, Wash., D. C.	3- 2
3-10	Lighting and water system, Adair, Iowa	3- 2
3-14*	Hydraulic turbines, Phoenix, Ariz.	2-23
3-14*	Electric apparatus, Phoenix, Ariz.	2-23
3-15	Electric-light plant, Monticello, Ark.	3- 2
3-15*	Electric generating plant, etc., Poughkeepsie, N. Y.	3- 2
3-15	Heating and ventilating plant, Chelsea, Mass.	3- 9
3-20*	Conduit and wiring system, Plattsmouth, Neb.	3- 9
3-20	Electric passenger elevator, Kansas City, Kan.	3- 9
3-21	Power plant, Webster City, Iowa	3- 9
3-21	Lighting fixtures, Aiken, S. C.	3- 2
3-21	Generators, Vallejo, Cal.	3- 9
3-21	Electrical wiring, Houston, Tex.	3- 9
3-22	Generators, Calgary, Alta	3- 2
3-22	Conduits, Atlanta, Ga.	3- 9
3-27	Lighting fixtures, Wash., D. C.	3- 9
3-30	Lighting fixtures, Wash., D. C.	3- 9
4- 1	Power-house equipment, Portsmouth, N. H.	3- 9
4- 4	Ventilating, electric wiring and conduits, Rugby, N. Dak.	3- 9
4-19	Generators, etc., Australia (Foreign)	3- 2
Indef*	Electric power, Brookville, Ohio	3- 9

Bridges.

Bids close.		Noted in issue of
3-10	Bridge, Grass Lake, Minn.	3- 2
3-10	Bridge, Trinidad, Colo.	3- 9
3-10	Bridge, Hornell, N. Y.	3- 9
3-11	Bridge repairs, Winchester, Ind.	3- 9
3-11	Bridges, Winchester, Ind.	3- 2
3-11	Bridge, Lawrence, Kan.	3- 2
3-11	Superstructure, Hamilton, Ohio	2-23
3-13	Bridge piers, Pittsburg, Pa.	3- 9
3-13	Bridge, Ottawa, Ont.	3- 9
3-14	Bridges, Grand Island, Neb.	3- 2
3-15	Bridge, Clinton, Ark.	2-16
3-15*	Bridge, Cedar Rapids, Iowa	3- 2
3-15*	Bridges, Ellicott, N. Y.	3- 2
3-15	Bridge, Ypsilanti, Mich.	3- 2
3-15	Bridge, Oakwood, Wis.	3- 9
3-16	Bridge, York, Pa.	3- 9
3-16	Bridge, Latrobe, Pa.	3- 9
3-20	Bridge, Jacksonville, Fla.	3- 9
3-20	Bridges, Greenfield, Ind.	3- 2
3-21	Bridge work, Cambridge, Ohio	3- 2
3-21	Bridge work, Coshocton, Ohio	3- 2
3-21	Bridge, Albany, N. Y.	2-23
3-22	Bridge work, Cleveland, Ohio	3- 2
3-23	Bridge work, Williamsport, Pa.	3- 9
3-24	Bridge, Cincinnati, Ohio	3- 9
3-28*	Bridge, Danville, Va.	3- 9
4- 1	Arch, Fredonia, N. Y.	3- 9
4- 3	Bridges, Idagrove, Iowa	2-23
4- 5	Bridge work, Cleveland, Ohio	3- 9
4-15	Bridge, Minnitonas, Man.	3- 2
4-15	Bridge, Swan River, Man.	3- 2

Buildings.

Bids close.		Noted in issue of
3- 9	Edifice, Aberdeen, Miss.	3- 9
3-10	Addition to hotel, Monroe, La.	3- 2
3-10	Erect of school, Vallania, Ind.	3- 2
3-10	School, Harrisburg, Ill.	3- 9
3-10	Library, Rockford, Ohio	3- 9
3-10	Building, Calgary, Alta	3- 9
3-11	School, Pluckemin, N. J.	3- 9
3-11	High school bldg., San Buenaventura, Cal.	3- 9
3-11	School bldg., Shadeland, Ind.	3- 9
3-11	Bldg., Fort William, Ont.	3- 9
3-11	School, Claremont, Cal.	3- 2
3-13	School, Waseca, Minn.	3- 2
3-13	Addition to school, Yonkers, N. Y.	3- 2
3-13	Building, Cincinnati, Ohio	3- 2
3-13	Public building, Harriston, Ont.	3- 2
3-13	School, Helena, Mont.	3- 9
3-13	Public bldg., Harriston, Ont.	3- 9
3-13	Detention Home bldg., Los Angeles, Cal.	3- 9
3-14	Jail, Madison, Neb.	3- 9
3-14	School, Sherwood, Ohio	3- 9
3-14	Parochial school, Mondovi, Wis.	3- 9
3-14	School, Bedford, Ind.	3- 9
3-15	Bldgs., Trenton, N. J.	3- 9
3-15	Building, St. Paul, Minn.	3- 9
3-15	Hospital, Lansing, Mich.	3- 9
3-15	Public library bldg., Earlville, Ill.	3- 9
3-15	Town hall, Kingsville, Ohio	3- 9
3-15	School, Chelsea, Mass.	3- 9
3-15	Hotel, Dayton, Ohio	3- 2
3-15	Building, Mitchell, S. Dak.	3- 2
3-15	Building, Braddock, Pa.	3- 2
3-15	Edifice, Grand River, Iowa	2-23
3-15	Bldg., Merril, Wis.	2-16
3-15*	Erection of bldgs., Fort Andrews, Mass.	2-16
3-16	Church, Fulda, Minn.	3- 9
3-17*	Barrack, Fort Monroe, Va.	2-23
3-18	School, Frederick, Md.	3- 2
3-18	Edifice, Groton, S. Dak.	3- 9
3-18	Improvement to jail, Eureka, Cal.	3- 9
3-20	Bank bldg., Norman, Okla.	3- 9
3-20	School additions, Winthrop, Minn.	3- 9
3-20	School, Grover Hill, Ohio	3- 9
3-21	U. S. post-office, Rock Springs, Wyo.	3- 9
3-21	Bank building, Norman, Okla.	3- 2
3-21	Hospital, Toledo, Ohio	3- 2
3-22*	Buildings, Tompkinsville, N. Y.	2-23
3-22	School, Baltimore, Md.	3- 9
3-22	School, Reevsville, Ohio	3- 9
3-23	U. S. post-office, Bellingham, Wash.	3- 9
3-24	School, Wyoming, Ohio	3- 9
3-25	Armory, Fond du Lac, Wis.	3- 9
3-28	U. S. post-office, Spokane, Wash.	3- 9
3-29	Building, Blue Earth, Minn.	3- 9
3-29	Bank bldg., Lake City, Fla.	3- 9
3-29	School, South Euclid, Ohio	3- 9
3-29	Erection of building, Troy, N. Y.	3- 2
3-30	U. S. post-office, Alliance, Ohio	3- 2
3-31	U. S. post-office, Ionia Mich.	3- 2
4- 1	Wiring, etc., in hospital, Jackson, Miss.	3- 9
4- 4	Church, Lansing, Mich.	3- 9
4- 5*	Hospital, Fort Monroe, Va.	3- 9
4-10	Post-office, Mt. Sterling, Ky.	3- 9
4-10*	U. S. post-office, Connellsville, Pa	3- 2
4-14	Post-office, Brazil, Ind.	3- 9
4-14*	School, Hazleton, Pa.	3- 9
4-15	Building, Waterbury, Conn.	3- 2
4-15	Plans, Havana, Cuba	10-20
4-18	Barge office, New York, N. Y.	3- 9

Water-Works.

Bids close.		Noted in issue of
3-10	Water and light system, Adair, Ia.	3- 9
3-10	Water wheels, Phoenix, Ariz.	2-23
3-10	Water softening plant, Owensboro, Ky.	2-23
3-10	Diversion channel, Klamath Falls, Ore.	2-16
3-10	Water mains, Fort Andrews, Mass	2-16
3-10	Well, Vermillion, S. Dak.	2-16
3-10*	Reservoir embankment, Hornell, N. Y.	2-16
3-10	Water pipe, Zanesville, Ohio	3- 9
3-10	Water meters, Everett, Mass.	3- 9
3-11	Well, Fort George Wright, Wash.	3- 9
3-11	Water mains, Troy, Ohio	2-16
3-11	Water main, Italy (Foreign)	3- 9
3-13	Pumping sta., Pittsburg, Pa.	3- 2
3-13	Water-works, Janesboro, N. C.	3- 2
3-13	Water-works, New Lexington, O.	3- 2
3-13	Water meters, Vallejo, Cal.	3- 2
3-13	Pipe, Pierpont, S. Dak.	2-23
3-13	Pig lead, Cleveland, Ohio	3- 9
3-13	Water pipe, etc., San Luis Obispo, Cal.	3- 9
3-13	Laying pipe, etc., Cincinnati, O.	3- 9
3-14	Pipe and specials, Boston, Mass.	3- 9
3-14	Meters, Detroit, Mich.	3- 9
3-15*	Water-works, Spring Lake, N. J.	3- 2
3-15	Water-works, Jacksonboro, Tex.	3- 9
3-15	Water-works, Kingsburg, Cal.	3- 9
3-15	Castings, etc., Boston, Mass.	3- 9
3-15	Wells, etc., New York	3- 9
3-16	Pumping machinery, etc., N. Y.	3- 9
3-16	Water pipe, New York	3- 9
3-16	Pipe and castings, Columbus, O.	3- 9
3-16	Concreting reservoir, Bozeman, Mont.	3- 9
3-16	Well, tank, etc., Gleichen, Alta.	3- 2
3-16	Reservoir work, Bozeman, Mont.	3- 2
3-17	Chimney, etc., Aurora, Ill.	3- 9
3-18	Well, Watertown, Wis.	3- 9
3-18	Pump, Fort Bayard, N. Mex.	3- 2
3-20	Water-works, Gettysburg, S. Dak.	3- 2
3-20	Water trench, Souris, Man.	3- 2
3-20*	Water-works, Bristol, Pa.	2-23
3-20*	Pipe, hydrant, etc., Westbury, N. Y.	3- 2
3-20	Water pipe, Fernbank, Ohio	3- 9
3-20	Water extensions, Nevada, Iowa	3- 6
3-21*	W-wks materials, San Augustine, Tex.	3- 2
3-21	Watermains, Grand View, Ohio	3- 2
3-21*	Siphon work, New York, N. Y.	3- 2
3-21	Pumping engine, Ft. San Houston Tex.	3- 2
3-22	Water pipe, Vancouver, B. C.	3- 2
3-24*	Pipe, Lewistown, Mont.	3- 2
3-24*	Hydrants, valves, etc., Lewistown, Mont.	3- 2
3-25	Water supply impvt., National Military Home, Ind.	3- 9
3-25	Circulating loop, Vallejo, Cal.	3- 9
3-27	Water-works, El Reno, Okla.	3- 9
3-28	Water main, Cleveland Heights, Ohio	3- 9
3-29	Water pipe, etc., Winnipeg, Man.	3- 9
3-30	Pumping engine, Kansas City, Mo.	3- 9
3-31*	Filtration plant, Saskatoon, Sask.	3- 9
3-31	Reservoir, Troy, N. Y.	3- 9
4- 1	Water-works, West Telford, Pa.	2- 2
4- 3*	Water main, Galveston, Tex.	2-23
4- 3*	Cement, Denver, Colo.	3- 9
4- 5	Reservoir, etc., Keeseville, N. Y.	3- 9
4-10	Water extensions, etc., Moose Jaw, Sask.	3- 9
4-15	Storage dam, Wells, Nev.	2-23
4-15*	Dam, etc., North Yakima, Wash.	3- 2
4-15*	Water softening plant, Ft. McKinley, Me.	3- 2

Sewers.

Bids close.		Noted in issue of
3- 9	Sewers, Norwood, Pa.	3- 9
3-10	Sewer, Wheaton, Minn.	3- 9
3-11	Sewer work, Homer, Ill.	3- 9
3-13	Sewer, Glassport, Pa.	3- 9
3-14	Sewers, Boston, Mass.	3- 9
3-14	Sewer, Akron, Ohio	3- 9
3-14	Sewer supplies, New Haven, Conn.	3- 9
3-14*	Sewer, Atlanta, Ga.	2-16
3-15	Sewers, Jacksonville, Fla.	3- 2
3-15*	Sewers, Baltimore, Md.	3- 2
3-15	Sewers, Cameron, Tex.	3- 9
3-16	Sewer, New York, N. Y.	3- 9
3-16	Sewers, New York, N. Y.	3- 9
3-16	Sewer system, Dunee, Ill.	3- 9
3-16	Sewers, Newark, N. J.	3- 9
3-16	Sewer system, Rector, Ark.	2- 2
3-20*	Sewer system, Bristol, Pa.	2-23
3-20	Sewer, Fort Washington, Md.	2-23
3-20*	Sewers, Stamford, Conn.	3- 2
3-20	Sewers, Souris, Man.	3- 2
3-21	Sewer, Grand View, Ohio	2-23
3-21*	Sewers, Moundsville, W. Va.	2-23
3-24*	Sewers, Louisville, Ky.	3- 2
3-24	Sewers, Putnam, Conn.	3- 9
3-27	Sewers, Minot, N. Dak.	3- 9
3-28	Sewers, Cleveland Heights, Ohio	3- 9
4- 4*	Sewer supplies, Saskatoon, Sask.	3- 9
4-10	Sewers, Moose Jaw, Sask.	3- 9
7- 3	Sewage disposal system, San Jose, Cal.	2-23

Streets and Roads.

Bids close.		Noted in issue of
3- 9	Paving, etc., St. Paul, Minn.	3- 9
3- 9	Stone, Sandusky, Ohio	3- 9
3-10	Paving, etc., Washington, D. C.	3- 9
3-10	Paving, etc., Buffalo, N. Y.	3- 9
3-10	Grading, etc., Cleveland, Ohio	3- 9
3-10	Grading, etc., Spokane, Wash.	3- 9
3-10	Sidewalks, Muscatine, Iowa	3- 9
3-10	Road construction, Fort Scott, Kan.	3- 9
3-10	Grading, etc., South Bend, Ind.	3- 9
3-10	Culvert, Cincinnati, Ohio	2-2
3-10	Regulating, etc., New York, N. Y.	3- 2
3-10	Road, La Fayette, Ind.	2-23
3-10	Paving, Cleveland, Ohio	3- 9
3-11	Roads, Brazil, Ind.	2-23
3-11	Blocks, etc., Bay City, Mich.	3- 9
3-13	Paving, Youngstown, Ohio	3- 9
3-13	Curbing, etc., St. Paul, Minn.	3- 9
3-13	and 20 Paving, etc., Topeka, Kan.	3- 9
3-13	Repaving, Jersey City, N. J.	3- 9
3-13	Grading, Worthington, Minn.	2-23
3-13	Curbing, etc., New York, N. Y.	3- 2
3-13	Grading, etc., Lebanon, Ind.	3- 2
3-13	Stone, Los Angeles, Cal.	3- 9
3-14*	Paving, Memphis, Tenn.	3- 2
3-14	Street work, Black Diamond, Cal.	3- 9
3-14	Paving, etc., Upper Alton, Ill.	3- 9
3-15	Paving, etc., Toledo, Ohio	3- 9
3-15	Paving, etc., New York, N. Y.	3- 9
3-15	Sidewalks, Hammond, Ind.	3- 9
3-15	Grading, etc., Red Oak, Iowa	3- 9
3-15*	Grading, etc., Meadville, Pa.	3- 2
3-15	Grading, etc., Olympia, Wash.	3- 2
3-15	Sidewalks, Calgary, Alta.	3- 2
3-16	Repaving, etc., New York, N. Y.	3- 9
3-17	Road material, Muskegon, Mich.	3- 9
3-17	Road construction, Paoli, Ind.	3- 2
3-17	Road work, Cincinnati, Ohio	3- 2
3-18	Paving, Oshawa, Ont.	3- 2
3-18	Road, Bowling Green, Ohio	2-23
3-20	Gravel roads, Anderson, Ind.	3- 2
3-20	Grading, Greenfield, Ind.	3- 2
3-20*	Paving, Portsmouth, Va.	3- 2
3-20*	Road improvements, Albany, N. Y.	3- 2
3-20	Pavement, etc., Petrolia, Ont.	3- 9
3-20	Street work, Newport News, Va.	3- 9
3-20	Sidewalks, East Youngstown, Ohio	3- 9
3-20	Paving, etc., Webb City, Mo.	3- 9
3-20	Paving block, Adrian, Mich.	3- 9
3-20	Paving, etc., Youngwood, Pa.	3- 9
3-21	Paving, Beaumont, Tex.	3- 9
3-21	Paving, etc., Corona, Cal.	3- 9
3-21*	Walks, etc., Fort Monroe, Va.	2-23
3-22*	Road improvement, Albany, N. Y.	3- 2
3-24*	Road improvement, Albany, N. Y.	3- 2
3-24	Road impvt., Cincinnati	3- 9
3-25	Pavement, etc., Watertown, Wis.	3- 9
3-25	Paving, etc., Racine, Wis.	3- 9
3-25	Paving, Richwood, Ohio	3- 9
3-28	Paving, etc., Cleveland Heights, Ohio	3- 9
3-28	Road work, Bowling Green, Ohio	3- 9
3-31*	Paving, etc., Wilmington	3- 9
4- 3	Road work, Bronson, Iowa	3- 9
4- 4	Road, Madison, Ind.	3- 9
4- 5	Culverts, etc., Rugby, N. Dak.	3- 9
4- 5	Road impvt., Coupeville, Wash.	3- 2
4- 6*	Curbing, etc., Cambridge, Mass.	3- 2

Miscellaneous.

Bids close.		Noted in issue of
3-10	Repairs to wharf, Fort Caswell, N. C.	3- 9
3-11	Drain tile, Taylorville, Ill.	3- 9
3-11	Embankment, Newport, N. J.	3- 9
3-13	Street sprinklers (Garbage) Mankato, Minn.	3- 2
3-13	Steel ceilings, Columbus, Ohio	2-16
3-13	Disposal plant, McKees Rocks, Pa. (garbage)	2-23
3-13	Repairing dock, New York, N. Y.	3- 2
3-13	Fire-alarm boxes, etc., New York	3- 2
3-14	Roofs, etc., Des Moines, Ia.	2-16
3-14*	Pontons, Rock Island, Ill.	2-16
3-14	Wireless telegraphy installation, Australia (Foreign)	1-19
3-14	Elec. light plant, Roumania (Foreign)	2- 9
3-14	Torpedo boats, Washington, D. C.	2- 9
3-14	Pipe, Toronto, Ont.	3- 2
3-14	Fire apparatus, Ottawa, Ont.	3- 2
3-14	Cement, New York	3- 9
3-14	Brass, bronze, etc., Wash., D. C.	3- 9
3-15	Fire escapes, New York	3- 9
3-15	Telephone line, Moose Jaw, Sask.	3- 9
3-15	Ditch, Olivia, Minn.	3- 2
3-15	Drainage ditches, Newton, Ill.	3- 2
3-15	Extension to break-water, Richibucto, N. B.	3- 2
3-15*	Wharves, etc., Philadelphia, Pa.	3- 2
3-15*	Tunnel, Bonanza, Colo.	2- 9
3-15	Mooring stones, Portland, Me.	2- 9
3-15*	Dredging, rock removal, New York	2-16
3-16	Ditch, etc., Rector, Ark.	1-26
3-16*	Additions to storehouse, Fort Strong, Mass.	2-16
3-16	Drainage ditches, Broughton, Ill.	3- 2
3-16	Drain, Estherville, Iowa	3- 2
3-16	Ditch, McLeansboro, Ill.	3- 9
3-17	Motor trucks, Toronto, Ont.	2-16
3-17*	Extending jetties, New Orleans, La.	2-23
3-18*	Tile, Cerro Gordo, Ill.	3- 9
3-20	Timber, etc., Ottawa, Ont.	3- 9
3-20	Repairing wharf, Fort McDowell, Cal.	3- 9
3-20	Ponton wagons, Washington Barracks, Wash.	3- 2
3-21	Iron Fence, Corfield Harbor, Md.	3- 9
3-21	Breakwater, Ottawa, Ont.	3- 9
3-21*	Cement, Vicksburg, Miss.	3- 9
3-21	Stone, Vicksburg, Miss.	3- 9
3-21*	Lock and dam, Cincinnati, Ohio	3- 9
3-22	Stone, Memphis, Tenn.	3- 9
3-22	Section houses, roundhouses, etc., Calgary, Alta.	3- 9
3-23*	Dredging, Portland, Me.	2-23
3-24*	Rock railway material, Panama, (U. S. Poss.)	1-26
3-25	Railroad cars, Chile (Foreign)	2-16
3-25	Dredging, Boston, Mass.	2-23
3-25	Dredging, etc., Newport, R. I.	3- 2
3-25	Retaining wall, Mount Vernon, O.	3- 9
3-30	Dredging, Grand Rapids, Mich.	3- 9
3-30	Dams, etc., Panama (U. S. Poss.)	1-10
3-30*	Dredging, Wilmington, Del.	3- 2
3-31*	Dredging, Galveston, Tex.	3- 9
4- 1	Bridge, Spain (Foreign)	2- 2
4- 1	Cruisers, destroyers, Ottawa, Ont.	2- 9
4- 3	Copper roof, Franklin, Ind.	2-16
4- 4	Cable Australia (Foreign)	2-23
4- 4*	Rail and ties, Toronto, Ont.	3- 2
4- 5*	Steel barges, Memphis, Tenn.	3- [illegible]
4- 7	Pipe, etc., Atlanta, Ga.	3- 9
4-10	Channel excavation, Buffalo, N. Y.	3- 9
4-10	Valve jacks, Wheeling, W. Va.	3- 9
4-10*	Sluice gates, Detroit, Mich.	3- 9
4-10*	Dredging, Detroit, Mich.	3- 9
4-15	Iron trucks, safes, etc., Egypt (Foreign)	3- 9
4-20	Hospital, etc., (plans and designs) Argentine Republic (Foreign)	1-12
8- 1	Designs, etc., for monument, Cincinnati, Ohio	2- 9

Examinations.

Examination date.		Noted in issue of
3-13*	Inspector of Gas and Gas-meters, Trenton, N. J.	2-23
3-31	Engineer-Physicist, Wash., D. C.	3- 9
4- 1	Resident Engineer, Albany, N. Y.	3- 9
4- 1	Superintendent Water Supply, White Plains, N. Y.	3- 9
4- 5	Junior Chemist, Wash., D. C.	3- 9

IN USTRIAL NOTES.

CEMENT RICES ADVANCE.—The leading manu rers of Portland cement advanced th quotations 5 cts. per bbl. on March 1. e new quotation for cement, delivered ew York City, is $1.48, with an allowa f 40 cts. for the bags returned. Compared h the basis of last year, the quotation ald be $1.38. It represents a price of s. per bbl. in bulk at the mill. Manufact are making this quotation on contract e shipped within the next 30 days, a te that a further advance will probab made April 1. There is little or no of prices, except by some concerns w re habitually under the market.

MR. PH B. SLIPPY, has opened an of for the general practice of civil e ring in the Marsh-Place Bldg., Water wa.

JOHN WELL, who for 18 years has been agent he Canton Bridge Co., has now taken ency for the York Bridge Co., of York. He will occupy the same offices as form , 68 State St., Albany, N. Y.

THE ANNA ENGINEERING WORKS, 2059 E n Ave., Chicago, Ill., has recently made a ntract with the Electric Machinery Sales as General Sales Agent for the Ajax ric riveting machine.

THE RAYTON-GITHENS CO., 200-202 Congr St., Boston, has closed a contract with Blaisdell Machinery Co., Bradford, Pa., their sole New England selling agents or their line of Air Compressors, Vacuum Cleaning Systems and Automatic Sewage Ejectors.

MR. AS. A. GREEN, Engineering-Construction, 226 La Salle St., Chicago, has been ppointed consulting engineer for the Madeline Meadows Land & Irrigation Co., which is developing a 45,0000 acre irrigation project in Lasson County, Cal. Mr. I. F. Jones, Madeline, Cal., is Chief Engr.

MR. FRANK A. HASTINGS, M. Am. Soc. C. E., has opened offices in the Schmulbach Bldg., Wheeling, W. Va., where he will engage in the general practice of structural and consulting engineering, making a specialty of structural and bridge work in steel and reinforced concrete.

MR. J. H. BLANTON, formerly connected with the Louisville & Nashville Terminal and the Nashville, Chattanooga & St. Louis Ry., at Nashville, Tenn., has been appointed traffic manager of the new traffic department installed by the Edwards Manufacturing Co., the "Sheet Metal Folks" of Cincinnati, Ohio.

THE BUDA CO., of Chicago, was awarded the gold medal at the recent Railway Exposition at Buenos Aires, Argentine Repub on its line of motor cars, motor velocipedes, hand propelled velocipedes, hand cars, track jacks, rail benders, car replacers, new style Paulus track drill and Wilson bonding drill.

THE WESTERN MFG. CO. has recently completed at Tiffin, Ohio, a modern manufacturing plant where its products—sheet metal specialties—are made. The buildings are located on a 40-acre tract, including foundries, machine shops, sheet metal shop, and office building, 210 × 100 ft., and a pattern vault.

MR. HENRY A. LAMBERT has associated himself with the Fletcher Engineering Co., Bridgeport, Conn., as consulting architect. The company is specializing industrial and power plants as well as all types of heavy building construction, and this addition to their staff will complete the organization, which consists of civil, mechanical, sanitary and structural engineers, of both technical training and practical experience. Mr. Lambert will, for the present, continue his private office in the Warner Bldg.

WORKMAN, CLARK & CO., ship builders, of Belfast, Ireland, have recently placed an order with the General Electric Co., of Schenectady, to furnish electrical equipment for three steamers which they are building for the United Fruit Steamship Co. The total equipment for these three steamers includes: 12 35-KW. turbo sets, 42 motors for refrigeration and ventilating system, aggregating 520 HP., three controlling switchboards, motor controlling panels, three searchlights.

THE GENERAL ELECTRIC CO., of Schenectady, N. Y., has recently received numerous orders for type C. P. 27 air cmpressors from the following: United Rys. of San Francisco, 80 equipments; Oakland Traction Co., Oakland, Cal., 60 equipments; Public Service Rys., Newark, N. J., 140 equipments; Springfield St. Ry. Co., Springfield, Mass., 50 equipments; The Connecticut Co., New Haven, Conn., 20 equipments; Grand Rapids St. Ry. Co., Grand Rapids, Mich., 32 equipments; Duluth St. Ry. Co., Duluth, Minn., 19 equipments.

THE YALE & TOWNE MFG. CO. of Stamford, Conn., has been awarded a contract by the J. H. Ladew Co. for installing a complete monorail overhead tramway system in the new tannery at Plank Road and Passaic River, Newark, N. J. The equipment comprises about three-quarters of a mile of I beam, three traveling cranes, transfer devices, automatic fire door attachments, etc., and is notable as showing the tendency toward overhead or "aerial" transportation for the handling of materials in up-to-date manufacturing establishments.

THE WESTINGHOUSE ELECTRIC & MANUFACTURING CO. has secured an order from Chalchuapa, Salvador, Central America, for generating apparatus and the lamps necessary for a small lighting and industrial service. The following apparatus will be shipped: 1 100 KVA. 3-phase, 60-cycle, 2200-volt waterwheel generator with exciter and switchboard; 18 1½ KVA. and 4 2 KVA. type S transformers, 1 phase, 60-cycle, 2200/110 volts; 6 6.6 ampere A. C. multiple enclosed arc lamps; 20 6 ampere A. C. multiple enclosed arc lamps.

THE NEW RIVER COLLIERIES CO., a subsidiary of the American Smelting & Refining Co., 165 Broadway, New York, has placed orders with the Link Belt Co. for three coal tipples for their No. 1, No. 5 and No. 6 plants at Eccles, W. Va. Each equipment is complete, consisting of "Link-Belt" dumping hoppers, shaking screens, picking bands, chutes, etc., and are excellent types for modern West Virginia tipple practice. The machinery, electrically driven, will be designed, constructed and erected by the Link-Belt Co., Philadelphia, Chicago, and Indianapolis.

THE WEBSTER MANUFACTURING CO. of Chicago and Tiffin, Ohio, has secured the contract for complete equipment of elevating and conveying machinery, screens, gates and spouts, etc., for the new anthracite coal shed of the M. A. Hanna Dock Co., to be erected at Superior, Wis. This equipment will handle, screen and load 200 tons of anthracite coal per hour.

This company is also furnishing the new anthracite coal shed of the Pittsburg Coal Co., at Duluth, Minn., with similar machinery. This plant is designed to handle, screen and load 300 tons of coal per hour.

MR. GEORGE H. ADAIR, who has been manager for Fairbanks-Morse & Co., of their Seattle Branch for five years, has severed his connection with that concern, and with his father and others has purchased the business of the Kilbourne & Clark Co. This concern will be known as the George H. Adair & Son Co., Seattle, and among the first lines they selected was that of the Foos Gas Engine Co., Springfield, Ohio. With the large variety of types and sizes of the Foos line, this will be the strongest Gas Engine Agency in that field, and will undoubtedly secure a considerable share of the business.

ANNOUNCEMENT IS MADE that the American Waterworks Association will hold its 31st annual meeting in Rochester, N. Y., June 5 to 10. It is desired to make the exhibit of the various waterworks appliances one of the chief features of the convention. This will be under the auspices of the Waterworks Manufacturers' Association. All applications for space either in the exhibition hall or on the canal bank in the rear of the City Hall should be made to Mr. Fred S. Bates, chairman of the Exhibit Committee, 180 Broadway, New York City. Uniform signs only will be used and these will be small and provided by the Association.

A GREAT FIELD FOR GASOLINE ENGINES of small horse-power exists in Canada, according to an extensive article in the "Engineering Supplement" of the London "Times" of Feb. 8, 1911 particularly in the farming sections of the western provinces. Coal is obtainable in those regions only at almost prohibitive prices ($4.90 per ton for the cheapest grade, lignite; $7 per ton for soft coal from Alberta; $11.20 per ton for Pennsylvania anthracite), as a result of which gasoline engines are widely used for all power purposes. Traction engines, small dynamos for electric lighting, saw mills and newspaper printing presses are some of the machines driven by gasoline engines. There is a good demand also for automobiles, motor boats and small marine engines.

A FIREPROOF BUILDING of steel and concrete construction has recently been completed for the General Electric Co., at the corner of Greenwich and Morton Sts., New York, and will be ready for occupancy about the first of April. There are nine floors in the new building, aggregating 90,000 sq. ft. of floor space. Steel bins and racks of a special pattern have been installed for the accommodation of loose stock, etc. Two large freight elevators will be used to handle the freight and express, and another elevator for passenger service. The new warehouse, with its increased floor space and improved shipping facilities, will enable the company to carry a much larger stock. It is located near the shipping center of New York and close to the principal steamboat piers.

THE HAYES TRACK APPLIANCE CO., Geneva, N. Y., will close their Geneva factory about April 1, and occupy the plant now in process of construction at Richmond, Ind. This change is made so as to acquire additional facilities for taking care of a rapidly growing business and to give a location nearer the center of demand. While the company has a very promising export trade, especially with South Africa, British India and Australia, the railroads of the United States are of course, the chief customers. The Hayes Track Appliance Co. has recently executed a standardization agreement with the Harriman Lines covering its derails. This was made when those lines already had over 3,000 of the company's derails in track bought during the years 1904 to 1910 inclusive.

THE THIRD ANNUAL CONVENTION of the Southern Commercial Congress has begun its sessions at Atlanta, Ga. This is aimed to be a systematic convention of business men, engineers, statesmen, and all those interested in the true prosperity of the South, whereby views may be interchanged regarding the development of its resources and promoting the best use of this territory to the general welfare of the nation.

The program includes such speakers as Hon. James Wilson, Judge Elbert H. Gary, and Mr. Geo. Westinghouse. Col. Roosevelt will speak on the South's Obligations and Statesmanship Endeavor. Engineering lines will be covered by such men as Mr. Chas. Hansel, Expert-in-Charge of Railroad and Canal Valuation in the state of New Jersey; Mr. L. E. Johnson, President of the Norfolk & Western Ry.; Chairman Judson C. Clements, of the Interstate Commerce Commission, and Dr. A. T. Hadley, President of Yale University. Mr. Gano Dunn, Ampere, N. J., will speak on Hydro-Electric Corporations; Their Duties and Responsibilities. Hon. William H. Taft, President of the United States, will speak on the last day of the session.

BRITISH LABOR EXCHANGES.—The first years of the Government labor exchanges in Great Britain has closed with the system triumphantly successful. Some 450,000 vacancies were notified by employers to the exchanges and 370,000 of them were filled. From 70,000 to 100,000 persons were applicants for positions about all the time. In order to enable workmen without money to reach distant places where they were in demand the Government exchanges have provided transportation, the cost of which has been repaid out of the workmen's wages. Perhaps the most surprising development has been the fact that more skilled than unskilled wage earners and even employers means of the exchanges. It was believed that they would be of little use to anyone but the unskilled laborers, but the first year's experience has proved that it is with regard to the skilled men, whom the employers are often unable to reach, that the exchanges have been of the greatest service. Such a demonstration completely upsets the idea that skilled wage earners and even employers are in no need of such assistance as the British labor exchanges are now giving. The policy of the Government is very progressive in regard to juvenile employment, and co-operation is well established already between the exchanges and the education authorities. The scheme, as now applied, secures a choice of suitable work for boys and girls through competent and disinterested advisers, and the actual placing of them in positions with a due regard to their educational requirements and permanent careers.—Springfield Republican.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 120.

CONCRETE ARCH BRIDGE OVER DAN RIVER.

Danville, Virginia.

Sealed proposals will be received at the office of the City Engineer, Danville, Va., until 12 o'clock noon, March 28, for the construction of a Reinforced Concrete Arch Bridge over Dan River, on Union Street, in said city. The structure will be about 1,000 feet in length, and 20 feet roadway.

Plans and specifications are on file for the inspection of bidders at the office of the City Engineer in Danville, at the office of the Manufacturers' Record in Baltimore, at the office of Engineering News in New York City, and at the office of Wilbur J. Watson, Consulting Engineer at Cleveland, Ohio. Plans and specifications can be obtained, if desired, from the Consulting Engineer on the payment of $5.00 therefor.

Bidders are expected to examine the site of the bridge and acquaint themselves with local conditions. Lump sum bids are required, and must be made on blanks furnished by the City Engineer.

The City reserves the right to reject any and all bids. Each bid must be accompanied by a certified check for $1,000, payable to the City of Danville, and bids must be sealed and marked "Proposal for Bridge over Dan River on Union St., Danville, Va.," and addressed to J. O. Magruder, City Engineer, Danville, Va.

HIGH SCHOOL BUILDING.

Hazleton, Pa.

Plans, specifications and rules governing bidders for a High-School Building at Hazelton, Pa., can now be secured by forwarding a certified check for twenty-five dollars ($25) to D. T. Evans, Secretary of the Board, to insure the return of plans at the proper time. Bids must be in hands of the undersigned on or before Friday evening, April 14.

The Board of School Controllers reserves the right to reject any or all bids, Architect, E. E. Joralemon, Peekskill, N. Y.

SYLVESTER ENGLE,
Chairman Property Committee.

SANITARY SEWER SYSTEM.

West Dundee, Ill.

Bids will be received until 7.30 p. m., March 16, by the Board of Local Improvements of the Village of West Dundee, for the construction of a system of sanitary sewers.

ERNEST LUTHER,
Attorney.

ELECTRIC POWER, ETC.

Brookville, Ohio.

The Village of Brookville, Ohio, 1,200 inhabitants, wishes bids or prosposals for Electric Power, Commercial and Street Lighting. For further information address

H. E. WHEATON,
Corporation Clerk.

STREET IMPROVEMENTS.

Portsmouth, Va.

Sealed proposals will be received at office of L. P. Slater, City Clerk, until 12 o'clock noon, March 20, 1911, for the improvement of London Street, from Water to Hatton Streets; Dinwiddie Street, from Boulevard to a point about 135 feet south of Clifford Street; Effingham Street, from Glasgow to County Streets, parked in the center, with roadway each side; Harrison Street, from Washington to Fourth Streets; Fifth Street, from Harrison to Fayette Streets; Fayette Street, from Fifth Street to West Gate of Navy Yard; First Street, from Causeway to Navy Yard Gate; Hatton Street, from London Street to Naval Avenue; Naval Avenue, from Hatton Street to Linden Avenue; Riverview Avenue, from Naval Avenue to North end; Ann Street, from Hatton to Owens Street, and from Hatton to Chestnut Streets; Villa Street, from West Park View bridge to Hospital Gate; and Green Street, from North Street to the line of U. S. Naval Hospital property, in the City of Portsmouth, Va.

An approximate schedule of the work is shown on the blank form of proposal attached to the specifications, which may be obtained on application to the City Engineer.

Bids made out in full on the blank form of proposal attached to the specifications must be enclosed in a sealed envelope and addressed to the Street Committee and marked "Proposals for the Improvement of Streets, Portsmouth, Va." Blank spaces on bid must be carefully and accurately filled.

Bids will be received for the following classes of pavement:

1st. Sheet Asphalt, on concrete foundation, with and without brick gutters, per sq. yd.

Street railway track paving on above, per sq. yd.

2d. Vitrified Brick, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

3d. Vitrified Brick, on sand and gravel foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

4th. Bitulithic, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

5th. Filbertine, on concrete foundation, per sq. yd.

Street railway track paving on above, per sq. yd.

6th. Granite Curbing, per lineal ft.

7th. Old broken Curbing taken up and replaced by Curbing furnished and delivered by the City, per lineal ft.

8th. Concrete Curbing, per lineal ft.

Bids must be made out for completed work as per schedule; no partial bids will be considered.

A certified check on some solvent local bank must accompany each bid to the amount of a sum equal to two and one-half per cent (2½%) of bid, and under the conditions expressed in the blank form of proposal.

The right to reject any or all bids or proposals is specially reserved. The right is also specially reserved to accept such bids as, in the opinion of the Street Committee, propose the use of the best materials, and promise the best and most lasting results, regardless of the prices named therein.

E. B. HAWKS,
Chairman Street Committee, Common Council.

S. T. MONTAGUE,
Chairman Street Committee, Board of Aldermen.

V. O. CASSELL, JR.,
City Engineer.

HYDRANTS, VALVES AND SUPPLIES.

Lewistown, Montana, Feb. 24, 1911.

Bids will be received by the City of Lewistown, Montana, up to 8 o'clock p. m., March 24, 1911, for the furnishing of Fire Hydrants, Valves, Lead, Jute and other materials.

Specifications may be inspected at the office of Engineering News; also for specifications and blank form of bid, or other information, address

P. A. CHASE, City Clerk, or
O. F. WASMANSDORFF, City Engineer.

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STREET PAVING.

Cambridge, Md.

Sealed proposals for grading, curbing and paving certain streets in the Town of Cambridge, Maryland, will be received by the Cambridge Street Improvement Commission up to 11 A. M. o'clock of the sixth day of April, 1911, to be addressed to Henry Lloyd, Chairman, and marked "Proposals for Street Improvements."

The work for which proposals are invited consists of the following approximate quantities:

16,876 sq. yds. vitrified fire clay or shale block pavement.
2,600 sq. yds. granolithic or concrete gutter.
6,400 lineal feet straight concrete curb.
4,150 lineal feet reinforced straight concrete curb (corner bar).
733 lineal feet reinforced curved concrete curb.
32 storm water inlets.

Each proposal must be made on forms furnished by The Cambridge Street Improvement Commission, and must be accompanied by a certified check in the sum of two thousand ($2,000) dollars, drawn on some bank doing business in the town of Cambridge and made payable to The Cambridge Street Improvement Commission, with this exception, that where a proposal is made covering only the concrete curb and gutter, a check in the sum of two hundred and fifty ($250) dollars will be required to accompany such proposal.

Specifications and blank forms of proposals can be obtained upon application to Henry Lloyd, Chairman of The Cambridge Street Improvement Commission, or to Herbert W. Hatton, Consulting Engineer, and a complete set of plans can be seen at the Engineer's office, Y. M. C. A. Building, Wilmington, Del., or at the office of the Commission, Dorchester National Bank, Cambridge, Md.

The right is reserved to reject any or all bids.

HENRY LLOYD,
Chairman Street Improvement Commission.
HERBERT W. HATTON,
Consulting Engineer.

SEWERAGE AND SEWAGE DISPOSAL.

Bristol, Pa.

Sealed proposals, addressed to the Borough Council of the Borough of Bristol, Bucks County, Pennsylvania, marked Proposals for "Sewerage System," will be received until 12 o'clock noon, March 20th, 1911, for furnishing materials and constructing a complete system of sewerage and disposal plant, comprising the following:

The system consists of approximately ten (10) miles of sewers, 8 inches to 24 inches in diameter.
Pump House.
Engines.
Pumps.
Pump Well and Disposal Works.

Bids will be received for the entire work or any portion thereof.

Plans may be seen and specifications and blank forms of proposal procured by applying to the office of the Borough Surveyor, No. 209 Radcliffe Street, Borough of Bristol, Bucks County, Penna.

A certified check for $500, payable to the order of the Borough Clerk of Bristol, Pa., must accompany each bid.

The Borough Council of the Borough of Bristol reserves the right to reject any or all bids or to accept any bid for the whole or any portion of the work.

LOUIS SPRING,
GUSTAV A. RATHKE,
DR. A. S. WILSON,
GEO. W. STRAUSER,
JOSEPH R. GRUNDY,
WM. H. BOARDMAN, Engineer, 426 Walnut St., Philadelphia, Pa.
Chairman, Committee.

CAST IRON WATER PIPE.

Lewistown, Montana, Feb. 24, 1911.

Bids will be received by the City of Lewistown, Montana, up to 8 o'clock p. m., March 24, 1911, for the furnishing of approximately 50,000 feet of cast-iron pipe of 130-lbs. pressure.

Specifications may be inspected at the office of Engineering News; also for specifications and blank form of bid, or other information, address

P. A. CHASE, City Clerk, or
O. F. WASMANSDORFF, City Engineer.

PAVING AND CURBING.

Wilmington, N. C.

Sealed proposals will be received for paving and curbing Sixth Street, from Brunswick to Campbell Streets, by the Commissioners of Streets at City Hall, Wilmington, N. C., up to noon, March 31st, and at that time they will be opened and publicly read, addressed to Louis S. Belden, Chairman, and endorsed "Proposals for Paving Streets." The work for which proposals are invited consists approximately of 2,740 sq. yds. of brick pavement on a 5" concrete base, one inch sand cushion filler grout, and 1,160 lineal feet of 5" by 13" granite curb; 20% rattler test is required of brick.

Each proposal must be accompanied with a certified check in the sum of Five (5%) per cent of the contract price, made payable to the Commissioners of Streets of the City of Wilmington.

Specifications and blank forms of proposals can be obtained by application to the Chairman of the Commissioners of Streets and a full set of plans can be seen at the office of the Engineer of Commissioners of Streets.

The right is reserved to reject any and all bids.

INTERCEPTING SEWER.

CITY OF SASKATOON, SASK.

Sealed tenders addressed to the undersigned City Commissioners and marked as to contents, will be received until 12 o'clock noon on Friday, April 14th, 1911, for the following work:

Contract No. 78—Pipelaying.
Contract No. 79—Furnishing Concrete Sewer Pipe.
Contract No. 80—Furnishing Cast Iron Sewer Pipe and Specials.

Plans, specifications, etc., may be seen at the office of the City Engineer, Saskatoon, also at the following places:

The Canadian Engineer, 62 Church St., Toronto.

The Canadian Engineer, 315 Nanton Building, Winnipeg.

The Canadian Engineer, Board of Trade Building, Montreal.

Engineering News, 220 Broadway, New York City.

The lowest or any tender not necessarily accepted.

JAMES CLINKSKILL, Mayor.
W. B. NEIL, City Commissioner.
Saskatoon, Sask., Canada,
March 1st, 1911.

SEWER.

CONTRACT NO. 5.
CITY OF PUTNAM, CONN.

Sealed bids, marked "Bids for Putnam Sewers," will be received by the undersigned at the Council Chamber in the City of Putnam until four o'clock p. m., on the 24th day of March, 1911. The sewers to be laid include the sewers voted to be laid by the Common Council at its meeting on the first Tuesday of February, 1911, comprising the sewers shown on plan drawn by George W. Perry, Engineer of Sewers, and marked "Putnam Sewer Contract No. 5," and include approximately 600 feet of 24" pipe, 300 feet of 20" pipe, 1,080 feet of 15" pipe, 600 feet of 12" pipe, 1,700 feet of 10" pipe, and 7,900 feet of 8" pipe, all in accordance with specifications, maps, and detailed drawings on file in the office of George W. Perry, Engineer of Sewers.

The right to reject any or all bids is hereby reserved.

For information, inquire of George W. Perry, Engineer of Sewers, Putnam, Conn.

Dated at Putnam, February 7th, 1911.

ARCHIBALD MAC DONALD,
Mayor.
G. ALLEN HAWKINS,
J. CLINTON NICHOLS,
GEORGE P. MINER,
Highway Committee.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 28, 1911. SEALED PROPOSALS will be received at this office until 3 o'clock p. m., on the 18th day of April, 1911, and then opened for the construction (including the drainage system, plumbing, pumps, etc.) of the United States Barge Office, New York, N. Y., in accordance with drawings and specifications, copies of which may be had at the office of the Chief Engineer and Superintendent, etc., United States Public Buildings, Room 727, U. S. Custom-House Building, New York, N. Y., or at this office, at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR,
Supervising Architect.

FURNISHING TILE FOR TRENCH.

Cerro Gordo, Ill.

The Commissioners of Union Drainage district No. 5, Cerro Gordo Township, Piatt County, Ill., will receive bids through their clerk, H. C. Phillips, Cerro Gordo, Ill., until 2 o'clock p. m., Saturday, March 18th, 1911, for the following material and labor: 3,100 ft. 18" tile; 2,100 ft. 16" tile; 3,900 ft. 15" tile; 4,400 ft. 14" tile; all the aforesaid tile to be first grade vitrified drain tile; also 4,100 ft. of 8" red shale drain tile; also the hauling the aforesaid tile; trenching anl laying the said tile and backfilling the trench; according to the plans and profiles on file with aforesaid clerk; or at the office of W. J. Day, the Engineer at Bement, Ill.; also furnishing the materials and building one concrete Retaining Wall; the bids will be considered separately; all bids must be accompanied with a certified check for at least 10% of the amount of the bid. The bids will be opened at the West Centre school house in the said district.

CONCRETE FOR RESERVOIR.

Bozeman, Mont.

Sealed proposals will be received at the office of the undersigned in the City of Bozeman, Montana, until 5 o'clock p. m., on the 16th day of March, 1911, for the laying of concrete on the side-slopes and bottom of the enlarged reservoir of the Bozeman City Water Works, amounting to about 4,840 square yards in accordance with the plans and specifications therefor on file at this office.

Blank "Proposals," copies of "Specifications" and Instructions to Bidders may be obtained of the City Clerk or of the City Engineer.

Each bid must be accompanied by a certified check for Two Hundred Dollars ($200) upon some bank in Bozeman, Montana, payable to the City Treasurer of said city, which check will be forfeited to the said city in case the successful bidder shall fail to furnish satisfactory bond and enter into the proposed contract within ten (10) days from the date of notification of award.

The City of Bozeman reserves the right to reject any and all bids.

A. M. BRANDENBURG,
City Clerk,
Bozeman, Montana.

CONCRETE ARCH.

Fredonia, N. Y.

The undersigned Superintendent of Highways of the Town of Pomfret, N. Y., will receive sealed bids for the construction of a concrete arch over Candaway Creek at Hunt's, in said Town, according to Plans and Specifications on file at the office of Frank H. Moir, Town Clerk, Fredonia, N. Y., on or before 2 P. M., April 1st, 1911. A certified check for $250.00 must accompany each proposal.

The undersigned reserves the right to reject any and all bids.

March 4th, 1911.

HENRY PETERSON,
Fredonia, N. Y.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Feb. 20, 1911.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 20th day of March, 1911, and then opened, for a plumbing and drainage system at the U. S. Post Office, Plattsmouth, Neb., in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent of Construction at Plattsmouth, Neb., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

FURNISHING CEMENT.

DEPARTMENT OF THE INTERIOR
UNITED STATES RECLAMATION SERVICE.

February 28, 1911.

Sealed proposals will be received at the office of the United States Reclamation Service, Denver, Colorado, until 10 o'clock a. m., April 3, 1911, for furnishing 130,000 barrels of Portland cement, f. o. b. cars at the works of the bidder. For particulars address the U. S. Reclamation Service, Washington, D. C., or Denver, Colorado.

R. A. BALLINGER,
Secretary.

FORT MONROE, VA., Ma[illegible]th, 1911.—Sealed proposals, in tripl[illegible] will be received at Fort Monroe, Va[illegible]til 10.00 A. M., April 5th, 1911, for [illegible]onstruction of an Isolation Hosp[illegible] at Fort Monroe, Va., including plum[illegible] heating and electric wiring and fixtu[illegible] For the convenience of bidders in a[illegible]ar New York, plans and specificat[illegible]may be seen in the office of the C[illegible]Quartermaster, Department of the [illegible] Governor's Island, New York. De[illegible] of certified check for $50.00 requ[illegible] guaranty return plans and specifi[illegible]s. Bidders on proposals must sta[illegible]me of manufacturers supplying the[illegible]th material. Information on appli[illegible] The United States reserves the r[illegible] to accept or reject any or all p[illegible]als or any part thereof. Address [illegible] Mc-BRIDE, Captain and Q. M., [illegible]S. A., Constg. Q. M.

WATER FILTRATI[illegible]

CITY OF SASKATOON, S[illegible]

Sealed tenders addressed to [illegible]undersigned and marked "WATER [illegible]TRATION," will be received until [illegible]clock noon on Friday, March 31st, [illegible] for the installation of a Mechani[illegible] Water Filtration plant for the City [illegible]skatoon.

All information may be obtain[illegible] application to the City Engineer.

The lowest or any tender not n[illegible]arily accepted.

JAMES CLINKSKILL, [illegible]or.
W. B. NEIL, City Commi[illegible]oner.
Saskatoon, Sask., Canada.
February 28th, 1911.

MISSISSIPPI RIVER COMMISSION, 1st and 2nd Districts, U. S. Engineer Office, Custom House, Memphis, Tenn., March 7, 1911. Sealed proposals for constructing and delivering seven (7) steel barges will be received at this office until noon of April 5, 1911, and then publicly opened. Information on application. CLARKE S. SMITH, Capt., Engrs.

U. S. ENGINEER OFFICE, Galveston, Texas, March 1, 1911. Sealed proposals for dredging Galveston Channel, Texas, will be received at this office until 12 m., March 31, 1911, and then publicly opened. Information on application. G. P. Howell, Major, Engrs.

PROPOSALS FOR CEMENT.—U. S. Engineer Office, Vicksburg, Mississippi, Feb. 28, 1911. Sealed proposals for furnishing 4,300 barrels of cement delivered near Monroe, La., will be received at this office until noon, March 21, 1911, and then publicly opened. Information on application. CLARKE S. SMITH, Capt., Engrs.

U. S. ENGINEER OFFICE, Cincinnati, O., March 6, 1911.—Sealed proposals for constructing Lock and Dam No. 29, Ohio River, near Ashland, Ky., will be received at this office until 2 P. M. (Central time), March 21, 1911, and then publicly opened. Information on application. H. JERVEY, Maj., Engrs.

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., March 9, 1911.—Sealed proposals for dredging at Ballards Reef, Detroit River, will be received at this office until 3 p. m., April 10, 1911, and then publicly opened. Information on application. C. McD. TOWNSEND, Col. Engrs.

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., March 9, 1911.—Sealed proposals for dredging at Rogers City, Michigan, will be received at this office until 3 p. m., April 10, 1911., and then publicly opened. Information on application. C. McD. TOWNSEND, Col. Engrs.

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., March 9, 1911.—Sealed proposals for the construction of Sluice Gates for St. Marys Falls Canal will be received at this office until 3 p. m., April 10, 1911, and then publicly opened. Information on application. C. McD. TOWNSEND, Col. Engrs.

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